Salman Durrani

Professor, School of Engineering (SOEN), CECC, The Australian National University (ANU), Australia

HIGHLIGHTS

APPOINTMENTS & QUALIFICATIONS

- 1. Professor, SOEN, CECC, ANU since Jan. 2023.
- 2. Senior Member of Institute of Electrical and Electronics Engineers (IEEE), USA since 2010.
- 3. Member of Engineers Australia, since 2008.

RESEARCH

- 1. 170 publications including 1 edited book, 2 book chapters, 72 journal papers and 95 conference papers (including 6 invited papers).
- 2. h-index =35, +6300 Google Scholar citations (+3000 citations in last five years). 14 publications with 39 citing patents.
- 3. Chief Investigator (CI) in 6 research grants, total value awarded = \$1.9 million (including lead CI in 2 ARC Discovery grants).
- 4. 2016 IEEE Communications Society (ComSoc) Asia Pacific Outstanding Paper Award.
- 5. Recognized as AI 2000 Internet of Things (IoT) Most Influential Scholars Honorable Mention in 2023, 2022 and 2020.
- 6. Editor, IEEE Transactions on Wireless Communications, 2024-present and Editor, IEEE Transactions on Communications, 2015 2020.
- 7. Collaborations and joint publications with researchers from Canada (Queen's Univ. & Carleton Univ.), USA (Boise State Univ.), Europe (Aalborg Univ., Univ. College London, CentraleSupelec and Univ. of Luxembourg) and Asia Pacific (Univ. of Hong Kong and Victoria Univ. of Wellington).

SUPERVISION

- Supervision of 98 students including 4 Postdoctoral Research Fellows, 15 PhD students (14 graduated), 6 ME Hons students, 29 BE R&D students and 44 BE Hons students.
- 2. External examiner for 35 PhD and 4 MPhil theses (Australia, Canada, India, Pakistan).
- 3. 2019 Special Commendation in the Australian Council of Graduate Research (ACGR) Award for Excellence in Graduate Research Supervision.
- 4. 2018 ANU Vice Chancellor's Award for Supervision Excellence.

EDUCATION

- 1. Recognised at the grade of Senior Fellow of Higher Education Academy (SFHEA), UK in 2013. I was one of the first 10 ANU academics, and the first in CECC, to achieve this esteem measure.
- 2. Reviewer for the Go8 Quality Verification System (QVS) 2017 for the discipline of 'Electrical and Electronic Engineering and Technology' in 2018.
- 3. Discipline Chair, Electronics and Communications Systems major in the Bachelor of Engineering, ANU (2005-2016).
- 4. 21 invited talks/workshops on teaching.
- 5. 2012 ANU Vice Chancellor's Award for Teaching Excellence.
- 6. Graduate Certificate in Higher Education, ANU, 2007.
- 7. Electric Circuits channel on YouTube since June 2020 (102 videos, +2900 subscribers, +375K views, +15,000 watch hours, +720 comments).

SERVICE

- 1. Associate Director Education, School of Engineering, 2021-present.
- 2. Member, ANU Appeals Panel, 2018-2021.
- 3. Backup Chair, ANU Excellence Research Australia (ERA) Panel 10 (Technology), 2014.
- 4. Member, ANU Vice Chancellor's Awards for Excellence in Education Committee, 2013-2014 and 2019.
- 5. Chair of the ACT Chapter of the IEEE Signal Processing and Communications Societies in 2015-2016.
- 6. Finance Chair of 2017 (17th) Australian Communications Theory Workshop.
- 7. 15 media stories and generating publicity for research, education and student achievements since 2014.

ACADEMIC QUALIFICATIONS

2001-2004	PhD in Electrical Engineering						
	 Institution: 	School of Information Technology & Electrical Engineering (ITEE),					
		The University of Queensland (UQ), Brisbane, QLD 4072, Australia.					
	— Thesis:	Investigations into Smart Antennas for CDMA Wireless Systems.					
	- Supervisor:	Prof. Marek E. Bialkowski (1951-2011).					
1996-2000	B.Sc. (1 st class Honours) in Electrical Engineering						
	— Institution:	Department of Electrical Engineering,					
		The University of Engineering & Technology, Lahore, Pakistan.					
	— Thesis:	Fractal Image Compression and its Implementation.					
	— Supervisor:	Assoc. Prof. Masood Ahmed (1959-2007).					
2005-2007	Graduate Certificate in Higher Education						
	— Institution:	Centre for Educational Development and Academic Methods (CEDAM),					
		The Australian National University (ANU), Canberra, ACT 2601, Australia.					

APPOINTMENTS

Jan. 2023	Professor
 present 	School of Engineering, The Australian National University.
Jan. 2021	Associate Director Education
 present 	School of Engineering, The Australian National University.
Jan. 2018	Associate Professor
— Dec. 2022	School of Engineering, The Australian National University.
Jan. 2012	Senior Lecturer
— Dec. 2017	Research School of Engineering, The Australian National University.
Mar. 2005	Lecturer
— Dec. 2011	Research School of Engineering, The Australian National University.
Oct. 2005	Visiting Researcher
— Apr. 2006	Wireless Signal Processing Program, National ICT Australia, Canberra.
Sep. 2004	Research Assistant
— Feb. 2005, 2003, 2001	School of Information Technology & Electrical Engineering, The University of Queensland, Brisbane.
2003, 2001	The oniversity of Queensiand, Brisbane.
Mar. 2001	PhD Research Student
— Aug. 2004	School of ITEE, The University of Queensland, Brisbane.

MEMBERSHIPS

2018	Member
— present	Australasian Association for Engineering Education.
2010	Senior Member
— present	Institute of Electrical & Electronics Engineers (IEEE), USA.
2008	Member
— present	Institution of Engineers Australia.
2004	Member
— present	IEEE Communications Society, IEEE Signal Processing Society, IEEE Vehicular Technology Society.

AWARDS FOR RESEARCH & SCHOLARSHIP

2023	Recognized as AI 2000 Internet of Things (IoT) Most Influential Scholars Honorable Mention (ranked 67nd in Internet of Things (IoT) over the past 10 years (2013–2022)).
2022	Recognized as AI 2000 Internet of Things (IoT) Most Influential Scholars Honorable Mention (ranked 46th in Internet of Things (IoT) over the past 10 years (2012–2021)).
2020	Recognized as AI 2000 Internet of Things (IoT) Most Influential Scholars Honorable Mention (ranked 42nd in Internet of Things (IoT) over the past 10 years (2009–2019)).
2019	Special Commendation in the ACGR Award for Excellence in Graduate Research Supervision.
2019	ISI Highly Cited Paper – My publication [J19, c.f. p19] enough citations to place it in the top 1% of the academic field of Computer Science based on a highly cited threshold for the field and publication year.
2019	ISI Highly Cited Paper – My publication [J26, c.f. p18] enough citations to place it in the top 1% of the academic field of Computer Science based on a highly cited threshold for the field and publication year.
2018	ANU Vice-Chancellor's Award for Supervision Excellence.
2017	Dean's Awards for Excellence in Supervision, CECS, ANU.
2016	Paper awarded 2016 IEEE ComSoc AP Outstanding Paper Award.
2015	Paper awarded runner up prize in the IEEE Australia Council Student Paper Contest - undergraduate student category.
2015	<i>Nominated</i> for Dean's Awards for Excellence in Supervision , College of Engineering & Computer Science, ANU.
2014	Paper selected as one of Best 50 papers at IEEE Globecom 2014 (corresponds to the top 2% of all papers submitted to IEEE Globecom 2014).
2010	Elevated to grade of Senior Member, IEEE.
2007	Travel Grant, ARC Australian Communications Research Network (ACoRN), $$2000$.
2003	Highly Commended Student Presentation Award , Eighth Australian Symposium on Antennas, CSIRO Telecommunications & Industrial Physics Centre, Sydney, Australia (one first prize and two highly commended student prizes were awarded).
2001	Richard Jago Memorial Prize , The University of Queensland (Co-recipient of the one travel grant/year awarded by School of ITEE, UQ, to attend a conference).
2001-2004	International Postgraduate Research Scholarship, funded by the Australian govern- ment.
2001-2004	School of ITEE International Scholarship, The University of Queensland.
2000	University Gold Medal for best graduate of the 1996–2000 session.

2000	 Two Gold Medals from Alumni: Shahid-ul-Haq Qureshi Medal for overall best performance in Electronics & Communication subjects in the B.Sc. Electrical Engineering Examination. Dr. S. H. Durrani Medal for overall best performance in Communication Discipline in the Final Year B.Sc. Electrical Engineering Examination.
2000	Three Gold Medals from Industry (Siemens Medal, Nespak Medal, Newage Medal) for overall best performance in the Final Year B.Sc. Electrical Engineering Examination.
2000 1999 1998 1997	Merit Certificate for obtaining 1 st position in Final year B.Sc. Electrical Engineering. Merit Certificate for obtaining 1 st position in Third year B.Sc. Electrical Engineering. Merit Certificate for obtaining 1 st position in Second year B.Sc. Electrical Engineering. Merit Certificate for obtaining 1 st position in First year B.Sc. Electrical Engineering.
1996-2000	Merit Scholarship, Board of Intermediate & Secondary Education, Lahore, Pakistan.

AWARDS FOR TEACHING

- 2021 *Commendation* from ANU Deputy Vice Chancellor Academic (DVC-A) for achieving over 90% SELT satisfaction for a course (ENGN1218 Introduction to Electronics) with over 100 enrolments in S2, 2020.
- 2018 *Nominated* for ANU Distinguished Educator.
- 2017 Inaugural **Research School of Engineering Education Team Award** (co-recipient with Assoc. Prof. S. Kalyanasundaram), for outstanding achievements in improving the student experience of ENGN2217 Mechanical Systems and Design course.
- 2013 Recognised at the grade of **Senior Fellow of Higher Education Academy (SFHEA), UK**.
- 2013 Vox pops competition winner (one of 10), The Higher Education Technology Agenda (THETA) Conference, Hobart, Australia.
- 2012 ANU Vice-Chancellor's Award for Teaching Excellence.
- 2014 *Nominated* for The Australian Office for Learning and Teaching (OLT) Citation for Outstanding Contributions to Student Learning.
- 2014 *Nominated* by students for the ANU Last Lecture.
- 2012 *Nominated* for OLT Award for Teaching Excellence Physical Sciences and Related Studies category.
- 2011 ANU Commendation for Outstanding Contribution to Student Learning.
- 2011 Dean's Awards for Excellence in Teaching, CECS, ANU.
- 2008 ANU Students' Associations Award for Excellence in Teaching.
- 2007 Dean's Awards for Excellence in Teaching, CECS, ANU.
- 2008 *Nominated* for Australian Learning and Teaching Council (ALTC) Award for Teaching Excellence Early Career category.
- 2007 *Nominated* for ANU Vice-Chancellor's Award for Teaching Excellence.
- 2007 *Nominated* by students for the ANU Last Lecture.

AWARDS FOR SERVICE

- 2021 **Certificate of Appreciation** for Significant Contributions made in furthering the objectives of the society as IEEE Transactions on Communications Editor | 2015-2020.
- 2018 **Certificate of Appreciation** for Notable Services and Contributions towards the advancement of IEEE and the Engineering Professions.
- 2017 **Certificate of Appreciation** as Chapter Chair for achieving IEEE Signal Processing Society's Chapter Certification for the ACT Joint Chapter of the IEEE Signal Processing and Communications Societies.
- 2015 Citation for **extensive individual contributions in 2014 as College Champion** (ANU Educational Fellowship Scheme (EFS) News Issue no. 11 January/February 2015; among only one of four EFS members across ANU).
- 2005 Certificate of Appreciation for continued support in College outreach activities, CECS, ANU.

RESEARCH

Grants

Note: BC = book chapter, J= journal paper, C = conference paper and cont. = contribution.

Project Id	CI/PI/ Name/s	Amount Funded	Amount of Years	Project Title	Publication Outputs
DP230100878	N. Yang, S. Durrani, X. Zhou, J. Jornet, M. Juntti	\$450,000	2023-2026	Ultra-Fast and Secure Terahertz Communications for 6G Wireless Systems	1J (submitted) + 2C (submitted)
ANU-Optus Bushfire Re- search Centre of Excellence, Project 3	X. Zhou, S. Durrani , S. A. Alvi	\$340,180	2022-2024	Ground-Based Low-Power IoT Sensor Networks for Bushfire Detection and Situational Awareness	2J (submitted) +1C
Data61 Top-Up Scholarship	S. Durrani	\$27,000	2021	Machine Learning for Internet of Health Things	Total = 5 (3J + 2C). My cont.: 5 (3J + 2C).
DP170100939	S. Durrani , X. Zhou, D. T. Ngo, H. Yanikomeroglu	\$352,000	2017-2019	Enabling Ultra-Reliable and Sustainable Machine-to-Machine Communications	Total = 38 (18J + 20C). My cont.: 26 (14J + 25C).
DP140101133	S. Durrani , X. Zhou, H. Mehrpouyan, S. D. Blostein	\$365,000	2014-2016	Realizable Synchronization Techniques: Unlocking the Potential of Future Wireless Networks	Total = 28 (1BC+12J+15C). My cont.: 24 (1 BC+10J+13C).
DP150101011	R. A. Kennedy, S. Durrani , J. D. McEwen	\$424,300	2015-2017	Harnessing Spherical Geometry in Scientific and Engineering Data Processing	Total = 20 (8J + 12C). My cont.: 2 (1J + 1C). Mentoring of PhD students.

Citation Summary

Total publications:	170
Total citations:	6330 (Google Scholar)
h-index:	35
i10-index:	84

Publication Summary

	Accepted							Under review or Draft	
	Total 2023 2024 2025 2026 2027 2028 2029								
Books	1	-	-	-	-	-	-	-	-
Book chapters	2	-	-	-	-	-	-	-	-
Journal papers	72	2	4						6
Conference papers	95	2	2						2
Total	170	4	6						8

Highly Cited Journal Papers

No.	Paper	Year	Journal	Rank
1	[J19]	2013	IEEE Transactions on Wireless Communications	Top 0.35%
2	[J35]	2016	EURASIP Journal on Wireless Communications and Networking	Top 1%
3	[J26]	2015	IEEE Transactions on Communications	Top 2.5%
4	[J54]	2019	EURASIP Journal on Wireless Communications and Networking	Top 3%
5	[J6]	2006	Microwave and Optical Technology Letters	Top 6%
6	[J37]	2016	IEEE Transactions on Communications	Top 6.5%
7	[J32]	2016	IEEE Transactions on Wireless Communications	Top 8%
8	[J22]	2014	IEEE Transactions on Communications	Top 11%
9	[J4]	2004	IEEE Transactions on Antennas and Propagation	Top 11%
10	[J49]	2018	IEEE Transactions on Wireless Communications	Top 12%
11	[J24]	2014	IEEE Transactions on Communications	Top 12%
12	[J29]	2015	IEEE Wireless Communications Letters	Top 15%
13	[J17]	2013	IEEE Transactions on Vehicular Technology	Top 15%

Quality of Journal Papers

Title	Impact factor	Number
IEEE Journal on Selected Areas in Communications	16.4	1
IEEE Internet of Things Journal	10.6	5
IEEE Transactions on Wireless Communications	10.4	11
IEEE Transactions on Communications	8.3	15
IEEE Transactions on Machine Learning and Networking	-	1
IEEE Open Journal of the Communications Society	7.9	1
IEEE Transactions on Vehicular Technology	6.8	6
IEEE Transactions on Signal Processing	5.4	6
IEEE Transactions on Antennas and Propagation	3.5	1
IEEE Wireless Communications Letter	6.3	5
IEEE Access	3.9	3
IEEE Signal Processing Letters	3.9	1
IEEE Communications Letter	4.1	2
IEE Electronics Letters	1.202	1
IET Communications	1.345	2
Elsevier Physical Communication	2.379	1
EURASIP Journal on Wireless Communications and Networking	2.559	2
EURASIP Journal on Advances in Signal Processing	1.759	2
Journal of Communications and Networks	3.908	1
Microwave and Optical Technology Letters	1.311	2
Mathematica Journal	0.229	1
Mathematical Methods in Applied Sciences	3.007	1
Other	-	1
Total		72

Papers Selected in IEEE COMSOC Best Readings

Best Readings is a collection of books, articles, and papers on a featured topic. Selection of a paper in Best Readings signifies that the paper is an archival technical paper or is among the state of the art papers in the field.

No.	Paper	Year	Торіс
1	[J63]	2022	Best Readings in Terahertz Communications:
			These selected Best Readings provide a current look at the state of the art in the field of Terahertz Communications.

Popular Journal Papers in IEEE Xplore

below are some of my popular articles, based on download statistics in receiving.						
No.	Paper	Year	Journal	Peak Position		
1	[J40]	2017	IEEE Transactions on Wireless Communications	No. 19 in Jan. 2017		
2	[J34]	2016	IEEE Transactions on Wireless Communications	No. 8 in Aug. 2016		
3	[J32]	2016	IEEE Transactions on Wireless Communications	No. 17 in Jan. 2016		
4	[J30]	2015	IEEE Wireless Communications Letters	No. 9 in Sep. 2015		
5	[J29]	2016	IEEE Wireless Communications Letters	No. 7 in May 2015		
6	[J26]	2014	IEEE Transactions on Communications	No. 19 in May 2015		
7	[J24]	2014	IEEE Transactions on Communications	No. 29 in Sep. 2014		
8	[J19]	2013	IEEE Transactions on Wireless Communications	No. 11 in Oct. 2013		

Below are some of my popular articles, based on download statistics in IEEE Xplore:

Papers Cited by Patents

The following data is collected from https://www.lens.org/.

- 12 of my publications have been cited by 40 patents. The citing patents are from researchers in Asia Pacific and Middle East and industry companies such as Samsung, Intel, Nokia, LG Electronics, NTT Docomo, Blackberry, Huawei and Fraunhofer.
- My work in Wireless energy harvesting and wireless power transfer has been cited by 20 patents, including patents from Nokia (EP3861801A1) and LG (US10111024B2). In addition, around 20 patents (not necessarily citing our papers) designed extended versions of the original relaying protocols proposed by us. For example, the patent application that directly implements an advanced version of our protocols: https://patents.google.com/patent/W02020069761A1 (Nokia) which has also been filed in Europe (EP3861801A1) and China (CN112840710A).

No.	Paper	Year	No. of Citing Patents	Торіс
1	[J19]	2013	14	
2	[J26]	2015	1	Wireless energy harvesting and wireless power transfer
3	[C46]	2014	5	
4	[J4]	2004	3	Antenna mutual coupling
5	[J17]	2013	2	Distance distributions
6	[J37]	2016	2	Device-to-device communications
7	[J55]	2019	1	UAV communications
8	[J43]	2017	1	Wireless receiver design
9	[J42]	2017	2	Backscatter communications
10	[C41]	2013	1	Biomedical signal processing
11	[J12]	2012	1	
12	[C30]	2011	2	Synchronization
13	[C25]	2010	2	
14	[C24]	2010	3	

International Collaborators

Note: J= journal paper, C = conference paper, DP = Discovery project, CI = chief investigator in research grant and PI = partner investigator in research grant.

No.	Name	Active Years	Affiliation	Joint Output	Comment
1	Prof. D. Niyato	2020-2021	Nanyang Technological Uni-	1J+1C	
			versity, Singapore		
2	Prof. H. Yanikomeroglu	2015-2019	Carleton University, Ottawa,	5J + 4C	PI in DP17
			Canada		
3	Prof. S. Blostein	2012-2017	Queen's University,	6J + 5C	PI in DP14
			Kingston, Canada		
4	Asst. Prof. H. Mehrpouyan	2012-2018	Boise State University, USA	7J + 5C	PI in DP14
5	Prof. P. Popovski	2015-2018	Aalborg University, Denmark	2J + 1C	
6	Prof. D. I. Kim	2016	Sungkyunkwan University,	1J + 1C	
			South Korea		
7	Prof. B. Ottersten	2013	University of Luxembourg,	2J	
			Luxembourg		
8	Dr. J. McEwen	2013-2016	University College London,	2J	PI in DP15
			London, UK		
9	Dr. P. Dmochowski	2016	Victoria University of	1J	Visited ANU
			Wellington, New Zealand		in 2015
10	Prof. I. Kirkidis	2015	University of Cyprus, Nicosia	1J	
11	Prof. M. Di Renzo	2017	CentraleSupelec, Univ. Paris-	1J	Visited ANU
			Sud, France		in 2016
12	Prof. Kaibin Huang	2017	University of Hong Kong,	2J + 1C	Hosted my
			Hong Kong		PhD student
					in 2016

Domestic Collaborators

No.	Name	Active Years	Affiliation	Joint	Out-	Comment
				puts		
1	Dr. Seyit Camtepe	2021-present	CSIRO Sydney	2J + 1C		
2	Assoc. Prof. Y. Hong	2021	Monash University, Melbourne	1J + 1C		
3	Dr. M. Ding	2019-2020	CSIRO, Sydney	1J + 1C		
4	Dr. D. T. Ngo	2015-2020	University of Newcastle, Newcastle	5J + 7C		CI in DP17
5	Prof. T. D. Hoang	2015	University of Technology, Sydney	1J + 1C		

ANU Collaborators

I have meaningfully collaborated with ANU collaborators, as evidenced below.

No.	Name	Active Years	Joint Outputs	Comment	1st or 2nd Author in Joint
					Outputs
1	Assoc. Prof. X. (Sean) Zhou	2013-present	32J + 34C	CI in DP14 and	Salman=40%, Sean=50%
				DP17	
2	Assoc. Prof. N. Yang	2015-present	3J + 6C		Salman =44%, Nan =56%
3	Prof. R. Kennedy	2009-2016	14J + 24C	CI in DP15	Salman=42%, Rod=16%
4	Assoc. Prof. P. Sadeghi	2009-2016	9J + 13C		Salman=41%, Parastoo=22%

International Researchers Hosted at ANU

- 1. Prof. E. Hossain, University of Manitoba, Winnipeg, Canada, July 2019.
- 2. Prof. H. Yanikomeroglu, Carleton University, Ottawa, Canada, July 2018.
- 3. Assoc. Prof. M. D. Renzo, Paris-Saclay University, Paris, France, Oct. 2016.
- 4. Dr. P. Dmochowski, Victoria University of Wellington, New Zealand, Jan.-Feb. 2015 and July 2014.
- 5. **Prof. J. S. Thompson**, The University of Edinburgh, Edinburgh, Scotland, Aug. 2014.
- 6. Prof. V. Krishnamurthy, University of British Columbia, Vancouver, Canada, Nov. 2012.
- 7. Assoc. Prof. B. Petersen, University of New Brunswick, New Brunswick, Canada, Aug. 2012.
- 8. Dr. R. Schoenen, Carleton University, Ottawa, Canada, Nov. 2011.
- 9. Prof. N. M. Sheikh, University of Engineering & Technology, Lahore, Pakistan, Sep. 2010.

Invited Talks and Seminars

Invited Talks

- 1. Invited talk, Design of Non-orthogonal Multiple Access Enhanced Backscatter Communication, Australian Communications Theory Workshop (AusCTW), Newcastle, Feb. 2018.
- 2. Invited talk, Distance Distributions and Boundary Effects in Finite Uniformly Random Networks, Australian Communications Theory Workshop (AusCTW), Adelaide, Feb. 2013.

Seminars (International and National)

- 1. Seminar, Energy Harvesting for Wireless Sensor Networks: Myth or Reality?, School of Electrical Engineering and Computing Seminar, The Univ. of Newcastle, NSW, Apr. 2016.
- 2. **Seminar**, *Distance Distributions in a Square Region*, Department of Electrical & Computer Engineering Seminar, Queen's University, Kingston, Canada, Sep. 2012.
- 3. **Seminar**, *Blind Timing and Carrier Synchronization in Decode and Forward Cooperative Systems*, Statistical Signal Processing Laboratory Seminar, The University of British Columbia, Sep. 2010.
- 4. **Seminar**, *Blind Timing and Carrier Synchronization in Decode and Forward Cooperative Systems*, BCWS Seminar Series, Carleton University, Ottawa, Canada, Sep. 2010.
- 5. **Seminar**, *Performance of sensor arrays for wireless CDMA systems*, Workshop on Sensor Networks, The University of Technology, Sydney, Australia, Nov. 2004.
- 6. **Seminar**, *Analysis of the error performance of adaptive array antennas for CDMA with noncoherent M-ary orthogonal modulation in Nakagami fading*, The University of Queensland, Oct. 2004.

Seminars (at ANU)

- 1. **Seminar**, *Energy Harvesting for Wireless Sensor Networks: Myth or Reality?*, Communications Seminar, ANU, Apr. 2016.
- 2. Seminar, Distance Distributions and Border Effects in a Unit Square, ASP Seminar Series, ANU, May 2012.
- 3. **Seminar**, Analysing Connectivity of Wireless Ad hoc Networks with Beamforming, RSISE, ANU, June 2009.
- 4. Seminar, Parametric Channel Modelling for Wireless Systems, RSISE, ANU, May 2008.
- 5. **Seminar**, *Channel Modelling for Beamforming in Cellular Systems*, Department of Engineering Research Forum, ANU, June 2006.

Selected Seminars (in Pakistan)

- 1. **Seminar**, *Machine-Type Communication with Random Access and Data Aggregation: A Stochastic Geometry Approach*, Department of Electrical Engineering, National University of Computer and Emerging Sciences, Lahore, Jan. 2018.
- 2. Seminar, Distance Distributions and Boundary Effects in Finite Uniformly Random Networks, The University of Engineering & Technology, Lahore, Pakistan, Jan. 2014.
- 3. **Seminar**, *Blind Timing and Carrier Synchronization in Decode and Forward Cooperative Systems*, Lahore University of Management Science, Pakistan, Nov., 2010.
- 4. **Seminar**, *Connectivity of Wireless Ad hoc Networks*, Workshop on Wireless Communications, The University of Engineering & Technology, Lahore, Pakistan, Dec. 2009. Also presented at Lahore University of Management Science, Pakistan, Dec, 2009.

Seminar, *Design Guidelines for Training-based MIMO Systems with Feedback*, The University of Engineering & Technology, Lahore, Pakistan, Dec. 2008.

- 5. **Seminar**, *Smart Antennas for Wireless Communications*, The University of Engineering & Technology, Lahore, Pakistan, Jan. 2006.
- 6. Seminar, Smart Antenna Applications for CDMA Wireless Systems, The University of Engineering & Technology, Lahore, Pakistan, Dec. 2003.

Paper Presentations

- 1. Paper Presentation (electronic) at IEEE ICC, Dublin, Ireland, June 2020.
- 2. Paper Presentation at IEEE Globecom, Singapore, Dec. 2017.
- 3. Paper Presentation at IEEE VTC, Sydney, Australia, June 2017.
- 4. Paper Presentations at IEEE ICC, London, UK, June 2015.
- 5. Paper Presentations at IEEE ICT, Sydney, Apr. 2015.
- 6. Paper Presentation (electronic) at IEEE ICC, Kyoto, Japan, June 2011.
- 7. Paper Presentation at IEEE PIMRC, Athens, Greece, Sep. 2007.
- 8. Paper Presentation at IEEE VTC, Melbourne, Australia, May 2006.
- 9. Paper Presentation at IEEE ISSTA, Sydney, Australia, Sep. 2004.
- 10. **Paper Presentation** at 8th Australian Symposium on Antennas, CSIRO Industrial Physics Centre, Sydney, Feb. 2003.

Book

[B1] D. N. K. Jayakody, J. Thompson, S. Chatzinotas and S. Durrani (editors), "Wireless Information and Power Transfer: A New Paradigm for Green Communications," Springer International Publishing AG, July 2017. http://www.springer.com/gp/book/9783319566689.

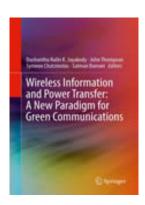


Figure 1: Book front photo (+14,000 chapter downloads as of 3-11-2024).

Book Chapters

- [BC2] W. Liu, S. Durrani and X. Zhou, "Wireless Powered Sensor Networks," In D. N. K. Jayakody, J. Thompson, S. Chatzinotas and S. Durrani, editors, *Wireless Information and Power Transfer: A New Paradigm for Green Communications*, Springer International Publishing AG, July 2017.
- [BC1] S. Durrani and M. E. Bialkowski, "Smart Antennas for Code Division Multiple Access Systems," In C. Sun, J. Cheng and T. Ohira, editors, Handbook on Advancements in Smart Antenna Technologies for Wireless Networks, Information Science Reference, July 2009.

Refereed Journal Papers

- [J78] C. C. Chan, X. Zhou and **S. Durrani**, "IoT Early Wildfire Detection and Labeling Models Using Time Series Features and Machine Learning," *submitted to Sensors*, Nov. 2024.
- [J77] N. Senadhira, S. Durrani, J. Guo, N. Yang and X. Zhou, "Design and Performance Analysis of UAV-Assisted Maritime-LEO Satellite Communication Networks," *submitted to IEEE Open Journal of the Communications Society*, Sep. 2024.
- [J76] Z. Tang, N. Yang, S. Durrani, X. Zhou, M. Juntti and J. M. Jornet, "Coverage Analysis for 3D Indoor Terahertz Communication System Over Fluctuating Two-Ray Fading Channels," *submitted to IEEE Transactions on Communications*, Oct. 2024.
- [J75] S. Khan, **S. Durrani**, C. Thapa and S. Camtepe, "A Modified AKMA for Decentralized Authentication in LEO Satellite-Based IoT Networks," *submitted to IEEE Internet of Things Journal*, July 2024.
- [J74] C. C. Chan, S. Alvi, X. Zhou, S. Durrani, N. Wilson and M. Yerba, "A Survey on IoT Ground Sensing Systems for Early Wildfire Detection: Technologies, Challenges and Opportunities," *submitted to IEEE Access*, July 2024.
- [J73] N. Senadhira, S. Durrani, S. Alvi, N. Yang and X. Zhou, "UAV-assisted IoT Monitoring Network: Adaptive Multiuser Access for Low-Latency and High-Reliability Under Bursty Traffic," *submitted to IEEE Transactions on Communications*, Apr. 2024 (revised Sep. 2024).
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Supervision Summary

	Total	Completed	In Progress
Postdoc	4	4	0
PhD	15	14	1
 as primary supervisor 	13	10	1
 as supervisor 	5	5	0
ME Hons	6	6	0
BE Hons	44	43	1
BE R&D	31	30	1

Postdoc Supervision

No.	Name	Years	Project	Outcomes
4	Dr. Chiu Chan	2022-024	ANU Optus Bushfire Project	2J.
3	Dr. Jing Guo	2017-2019	DP170100939	4J + 4C. A. Prof. at BIT, China
2	Dr. Zubair Khalid	2016	DP150101011	1J+1C. A. Prof. at LUMS, Pakistan
1	Dr. Ali Nasir	2014-2015	DP140101133	5J +8C. A. Prof. at KFUPM, Saudi Arabia

PhD Student Awards

1 ANU Vice-Chancellor's HDR Travel Grant

No.	Year	Student	Amount	Host	Trip Duration
7	Sheeraz Alvi	2018	\$3500/-	Prof. C. Fischione, KTH Royal Institute of Tech-	2 months
				nology, Stockholm, Sweden	
6	Xiaohui Zhou	2017	\$1500/-	Assoc. Prof. M. Di Renzo, CentraleSupelec,	3 weeks
				Univ. Paris-Sud, France	
5	Wanchun Liu	2015	\$2500/-	Asst. Prof. Kaibin Huang, University of Hong	3 months
				Kong, Hong Kong	
4	Yifei Huang	2015	\$1250/-	Prof. J. Andrews, The University of Texas at	2 months
				Austin, USA	
3	Jing Guo	2014	\$3000/-	Prof. H. Yanikomeroglu, Carleton University,	4 months
				Ottawa, Canada	
2	Ali Nasir	2011	\$3500/-	Prof. T. Svennson and Prof. T. Erikson,	6 months
				Chalmers University of Technology, Sweden	
1	Zubair Khalid	2010	\$1500/-	Dr. J. McEwen, University College London,	3 months
				London, UK	

2 **CECS Dean's Travel Grant**

No.	Year	Student	Amount	Host	Trip Duration
3	Sheeraz Alvi	2018	\$2500/-	Prof. C. Fischione, KTH Royal Institute of Tech-	2 months
				nology, Stockholm, Sweden	
2	Yifei Huang	2015	\$2250/-	Prof. J. Andrews, The University of Texas at	2 months
				Austin, USA	
1	Zubair Khalid	2012		Dr. J. McEwen, University College London,	3 months
				London, UK	

3 Chinese Government Award for Outstanding Self-Financed Students Abroad (awarded to no more than 500 Chinese students each year all over the world): Xiaohui Zhou (2019), Wanchun Liu (2017), Jing Guo (2016)

4 **2016 Australian Information Theory School - Student Travel Grant**: Jing Guo (\$500/-) and Xiaohui Zhou (\$250/-).

PhD Student Supervision

Note: J= journal paper, C = conference paper, Cont. = contribution.

No.	Name	Thesis	My role	Cont.	Outcomes
15	Mr. Muham- mad Usman (Aug. 2023- present)	Integrated Sensing and Commu- nication	Primary supervisor and Chair	To do	
14	Mr. Saud Khan (July 2020-Jul. 2024)	Machine Learning for Wireless Networks	Primary supervisor and Chair	50%	3J + 2C
13	Ms. Nilupuli Senadhira (May 2018-Jul. 2024)	UAV Communications	Primary supervisor and Chair	50%	3J + 2C
12	Ms. Sahar Idrees (March 2018-Aug. 2023)	Smart Reflection and Passive Communication: Synergizing Backscatter Communication and 6G Technologies for Future Wireless Networks	Primary supervisor and Chair	50%	3J + 2C
11	Mr. Akram Shafie (Jan. 2020-Jan. 2023)	Spectrum Allocation for Tera- hertz Band Communication Sys- tems	Associate supervisor (co-supervised with A. Prof. N. Yang)	20%	2J + 2C
10	Mr. Sheeraz A. Alvi (July 2016- present)	Analysis and Design of Com- munication Policies for Energy- Constrained Machine-Type De- vices	Associate supervisor (co-supervised with Dr. X. Zhou)	30%	3J + 3C. Educa- tional Lab De- veloper, ANU
9	Ms. Xiaohui Zhou (March 2015-present)	Integrating Drones and Wireless Power Transfer into Beyond 5G Networks	Primary supervisor and Chair (co-supervised with Dr. J. Guo)	70%	3J +2C. Post- doc at Mac- quarie (Prof. S. Hanly)
8	Mr. Abbas Koohian (May 2015-May 2019)	Channel Estimation and Self- Interference Cancellation in Full-Duplex Communication Systems	Primary supervisor and Chair	50%	2J+2C. West- pac Group, Sydney
7	Ms. Wanchun Liu (July 2014- July 2017)	Wireless Communication Net- works Powered by Energy Harvesting	Associate supervisor and Chair (co-supervised with Dr. X. Zhou)	40%	4J+3C. Post- doc at USYD (with Prof. B. Vucetic)
6	Mr. Yifei Huang (Mar. 2014-May 2017)	Network management and De- cision Making for 5G heteroge- neous Networks	Primary supervisor and Chair (co-supervised with Dr. X. Zhou)	60%	3J+4C. Quan- tum Brilliance, UK
5	Ms. Jing Guo (Sep. 2012-Apr. 2016)	Stochastic Geometry for Model- ing, Analysis and Design of Fu- ture Wireless Networks	Primary supervisor and Chair (co-supervised with Dr. X. Zhou)	60%	6J+3C. A. Prof., BIT, China
4	Ms. Shama N. Islam (June 2011-Dec. 2014)	Multi-way Relay Networks: Characterization, Performance Analysis and Transmission Scheme Design	Associate supervisor (co-supervised with Dr. P. Sadeghi)	40%	3J+4C. Senior Lecturer, Deakin Uni- versity, Geelong

No.	Name	Thesis	My role	Cont.	Outcomes
3	Mr. Zubair	Spatio-Spectral Analysis on the	Primary supervisor (co-	35%	5J+5C. A. Prof.
	Khalid (April	Unit Sphere	supervised with Prof. R.		at LUMS, Pak-
	2010-April		Kennedy and Dr. P.		istan
	2013)		Sadeghi)		
2	Mr. Ali A. Nasir	Synchronization in Cooperative	Primary supervisor (co-	70%	5J+8C. Asst.
	(June 2009-Sep.	Communication Systems	supervised with Prof. R.		Prof. at
	2012)		Kennedy)		KFUPM, Saudi
					Arabia
1	Mr. Xiangyun	Transmission Resource Alloca-	Associate supervisor	40%	4J+7C. A. Prof.,
	Zhou (Jan.	tion in Multi-Antenna Wireless	(co-supervised with Dr.		ANU.
	2008-June	Communication Systems with	P. Sadeghi)		
	2010)	Channel Uncertainty			

Master of Engineering (ME) Honours Student Supervision

No.	Year	Name	Thesis	Outcome
6	2017	Mr. Farhan Saeed	Matlab Simulation of Downlink cellular Systems with Ele-	Matlab code
			vated Base Stations	
5	2014	Mr. Nie Cong	Generalized Distance Distributions in Wireless Networks	Matlab code
4	2011	Ms. Hongfei Jia	Analyzing the Connectivity of Vehicular Ad Hoc Networks	
			Using SUMO	
3	2007	Mr. Chao Yu	Modelling of Mobile-to-Mobile Communication Channels	
2	2006	Mr. Jing Gu	Performance of M -ary Orthogonal Signals over	
			Nakagami- m Fading Channels	
1	2006	Mr. Shuo Pan	Capacity of MIMO Systems for Spatial Channel Model Sce-	1C (cited by 28)
			narios	

BE R&D Student Supervision

The BE R&D degree is an elite engineering degree that allows undergraduate students to get involved in research based projects during their degree. ENGN4718 = 18 unit (Hons) research project, ENGN4712 = 12 unit (Hons) research project, ENGN3712 = 12 unit research project in 3rd year, ENGN3706 = 6 unit research project in 3rd year, ENGN2707 = 6 unit research project in 2nd year, ENGN2706 = research project worth 40% of introductory 6 unit course in 2nd year.

No.	Year	Course	Name	Thesis	Outcome
29	2023	ENGN2706	Ms. Safiya Bardi	Statistical Modelling of UAV Wob-	
				bling	
28	2023	ENGN2706	Mr. Arthur Zhao	Volcano Monitoring Using IoT	
27	2022	ENGN2706	Mr. TJ Adler	Power consumption of Bushfire sen-	
				sors	
26	2021	ENGN2706	Ms. Darby Liersch	Identification and Analysis of a Bush-	
				fire Simulator Suitable for Use in the	
				Australian Capital Territory	
25	2020	COMP4560	Mr. Patrick Salvin	AgTech	
24	2020	ENGN4718	Ms. Nicola Armstrong	Analysis of LoRaWAN Network Per-	Graduate
				formance and Theoretical Design for	Network
				Agricultural Contexts	Engineer,
					Telstra
23	2019	ENGN2706	Mr. Maxwell Ashurst	UAV Energy Consumption	Matlab
					code
22	2019	ENGN2706	Mr. Ratmir Muttagrove	UAV Trajectory Modelling	Matlab
					code
21	2018	ENGN3712	Mr. Tianheng Zhang	Machine Learning Detection for Am-	DSP En-
				bient Backscatter Communications	gineer,
					Dolby
20	2018	ENGN2706	Ms. Nicola Armstrong	Modelling of Building Blockages for	
				5G mmWave Networks	
19	2018	ENGN2706	Mr. Mingrui Zhao	Nearest-Neighbor and Contact Dis-	Research
				tance Distribution for Matérn Cluster	assistant,
				Process	ANU
18	2017	ENGN4712	Ms. Nilupuli Senadhira	MATLAB Simulation of Random Ac-	Matlab
				cess Channel in Machine-to-Machine	code. PhD
				Communication	student,
					ANU
17	2017	ENGN2706	Mr. Tianheng Zhang	MATLAB Simulation of UAV Base Sta-	Matlab
				tion Networks	code

No.	Year	Course	Name	Thesis	Outcome
16	2017	ENGN4718	Mr. Ross Pure	Computing Closed-Form Distance Distributions in Finite Regions	2J. 2 month research visit to Prof. Jian- ping Pan, Victoria University, Canada
15	2016	ENGN2707	Mr. Lachlan Wisdom	Piezoelectric Energy Harvesting	Honeywell, Canberra
14	2016	ENGN2706	Mr. Oliver Johnson	Simulation of the α -Stable Distribution with the Fox H Function for Interference Modelling	MS EE stu- dent, Stan- ford, USA
13	2016	ENGN4712	Ms. Hyein La	Distance Distributions in Wireless Networks: A Mathematica Imple- mentation	Mathematica code
12	2015	ENGN3712	Ms. Nilupuli Senadhira	Outage Analysis of Underlay D2D Networks with Multiple Antennas at D2D Users	1C
11	2015	ENGN2706	Mr. Yuxin Liu	Best Neighbour Distance Distribution in a Poisson Field of Nodes	PhD stu- dent, Caltech, USA
10	2014	ENGN3706	Mr. Daniel Marshall	Device-to-Device Communication in Cellular Networks	1C, Google, Sydney
9	2014	ENGN4718	Mr. Craig Wang	Performance Analysis of Heteroge- neous Cellular Networks with Energy Harvesting Base Stations	1C. PhD, ETH Zurich. Novartis, Switzerland
8	2014	ENGN2706	Mr. Ross Pure	Distance Distributions in Arbitrarily Shaped Polygons	1J
7	2014	ENGN2706	Ms. Joyce Mau	Distance Distributions in Wireless Networks with Repulsion and Cluster Spatial Point Processes	
6	2013	ENGN2706	Mr. Andrew Jamieson	Wireless Power Transfer: Design and Simulation of Circuits for Consumer Electronics Applications	
5	2013	ENGN2706	Mr. Avinash Upadhya	Coverage Area Distributions of single-tier heterogeneous networks	PhD student at ANU
4	2012	ENGN2706	Mr. Samuel Stefopoulos	Development of Matlab graphical user interface for ECG signal analysis	System Engineer at Cochlear, Sydney
3	2012	ENGN2706	Ms. Hyein La	Spatial Modelling of Heterogeneous Cellular Networks	
2	2009	ENGN2706	Ms. Pei Hua Leong	Beampattern Modelling in Wireless Ad-hoc Networks	Roy Mor- gan, Mel- bourne.
1	2008	ENGN2706	Mr. Da Wang	Simulation of Geometrical One-ring Scattering Channel Model	PhD, ANU

BE Honours Student Supervision

No.YearNameThesis442024Mr. Finn PulsfordPCB Design and Satellite-IoT Connect ANU Bushfire Sensor Node432022Mr. Kurt JohnsonBushfire Detection with Low Powere422022Mr. Nicholas ArnoldBushfire Detection using IoT Sensor I and Satellite - Terrestrial Networks with Multi tunistic Scheduling402022Ms. Mingxin HouDownlink Performance Analysis of L bit Satellite Constellation392021Mr. Sichen ShenSum-rate Optimisation of Uplink Na with Intelligent Reflecting Surface382021Mr. Kehan HuangA Simulator for LoRa-Based Wireles	d Sensors Networks Hybrid Satel- tiuser Oppor- ow Earth Or-
ANU Bushfire Sensor Node432022Mr. Kurt JohnsonBushfire Detection with Low Powere422022Mr. Nicholas ArnoldBushfire Detection using IoT Sensor I412022Mr. Hisham KhanPerformance Analysis of Relay Aided lite – Terrestrial Networks with Multi tunistic Scheduling402022Ms. Mingxin HouDownlink Performance Analysis of L bit Satellite Constellation392021Mr. Sichen ShenSum-rate Optimisation of Uplink Ne with Intelligent Reflecting Surface	d Sensors Networks Hybrid Satel- tiuser Oppor- ow Earth Or-
43 2022 Mr. Kurt Johnson Bushfire Detection with Low Powere 42 2022 Mr. Nicholas Arnold Bushfire Detection using IoT Sensor I 41 2022 Mr. Hisham Khan Performance Analysis of Relay Aided 41 2022 Mr. Hisham Khan Performance Analysis of Relay Aided 40 2022 Ms. Mingxin Hou Downlink Performance Analysis of L 39 2021 Mr. Sichen Shen Sum-rate Optimisation of Uplink New	Networks Hybrid Satel- tiuser Oppor- ow Earth Or-
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402022Ms. Mingxin HouDownlink Performance Analysis of L bit Satellite Constellation392021Mr. Sichen ShenSum-rate Optimisation of Uplink N with Intelligent Reflecting Surface	
39 2021 Mr. Sichen Shen Sum-rate Optimisation of Uplink New With Intelligent Reflecting Surface	
39 2021 Mr. Sichen Shen Sum-rate Optimisation of Uplink New With Intelligent Reflecting Surface	
with Intelligent Reflecting Surface	
with Intelligent Reflecting Surface	OMA System
	ss Mesh Net- PhD student at
works and Use Case Analysis	UNSW
37 2020 Mr. Shaoheng Xu Wireless Sensor Networks with LoRa	
36 2020 Mr. Ching Hong Tam Impact of Antenna Models on Connec	
Iular Connected UAVs	UQ
35 2020 Mr. Kangqing Liu Machine Learning for Tag Symbol	-
Ambient Backscatter Communication	
	College London
34 2019 Ms. Xinran Li SWIPT-Enabled Cellular-Connected L	
	dent, Hong
	Kong University
	of Science and
	Technology
33 2019 Ms. Jairui Li Ambient Backscatter Communication	
33 2019 Ms. Jairui Li Ambient Backscatter Communication Error Rate Analysis	n System: Bit PhD student, Monash
32 2019 Ms. Elizabeth Cowling Simulation of Ambient Backscatter	
tions	berra
31 2019 Mr. Yilin Geng Reinforcement Learning for Base State	
in Cellular Communication	dent, Penn
In central communication	
	Engineering,
30 2018 Mr. Fanxiao Dong Integration of UAVs into 5G Cellular .	USA
	-
29 2018 Mr. Ian De Jongh MATLAB Simulation of Machine Type tions in 3GPP LTE Networks	Communica-
	Ei Sianala DAE Sustana
28 2017 Mr. Daniel Owen Wireless Energy Harvesting from Wi	
27 2017 Mr. Areeb Saeed Machine to Machine (M2M) Comm	-
Vehicle to Vehicle (V2V) Data Exchan	
26 2017 Ms. Maki Shinosaki Solar Energy Harvesting Powered Ma	achine to Ma- DFAT
chine Communication	
25 2016 Mr. Josip Simunic Development of a Low Power Mac	chine to Ma- Google, CA
chine Communication Architecture	
24 2016 Mr. Jason Lee Access Class Barring with Aggregation	on and Trunk- 1C
ing in M2M Communication	
23 2016 Ms. Chong Zhou Feasibility of Renewable Powered Ba	se Stations in
Canberra	
22 2016 Ms. Yingyun Ai Performance Analysis of Renewable	
Cooperative Energy Harvesting Netw	
21 2015 Mr. Trung Nguyen Probability of Node Isolation in Wi	
Network with Arbitrary Shape of Field	ld-of-Interest

Note: J= journa	l paper, C =	conference	paper.
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	-	lai paper, C = conference pa		_
No.	Year	Name	Thesis	Outcome
20	2015	Mr. Bingfei Fu	Mobility-aware Interference Modelling in Wire- less Networks	
19	2014	Ms. Xiaohui Zhou	Wireless Energy Harvesting in Large-scale Ad hoc Networks with Multiple Antenna Transmission Nodes	1J , Postddoc at Macquarie Uni.
18	2014	Mr. Bin Zhu	Power Allocation Strategy in Wireless Energy Har- vesting Relaying Network	
17	2013	Mr. Andrew Dawson	Spatial Point Processes in Wireless Networks	Matlab code. St Matthew's Anglican Church
16	2013	Ms. Sandra Arcos Holzinger	ECG Compression using Wavelets	
15	2012	Mr. Brian Voon Chow	m-heath Research and Development: Com- pressed Sensing for Electrocardiography (ECG)	Scientist, Sime Darby Tech- nology Center, Malaysia
14	2012	Ms. Jing Guo	Distance Distributions in Regular Shaped Wireless Networks	1J
13	2011	Ms. Jiazhen Zhu	Analysing Connectivity of Random Graph, Scale- free and Small-world Networks	
12	2010	Mr. Beau Heath	Path Loss Estimation in a Wireless Ad hoc Network	
11	2010	Mr. Weng Law	Connectivity of Interference Limited Wireless Ad hoc Networks	
10	2010	Mr. Chin Chew	Modelling of Link Duration in Wireless Ad hoc Net- works	
9	2009	Mr. Omar Hashmi	Frequency Prioritised Queuing in Electrocardio- graph (ECG) Systems	1C. CEA Tech- nologies
8	2009	Mr. Abhas Chandra	Connectivity of Vehicular Ad hoc Networks	1C. T-Mobile, Seattle
7	2008	Mr. Vikas Sharma	Statistical Properties of Sum-of-Sinusoid Channel Models	Associate Direc- tor, Protiviti
6	2008	Ms. Vasanta Gayatri Chaganti	OPNET Simulation of two On-Demand Network Routing Protocols	PhD, NICTA
5	2008	Mr. Santit Gow Traithavil	Method of Exact Doppler Spread for Simulation of Wireless Communication Channels	Software Engi- neer at Canva
4	2007	Mr. Xiangyun Zhou	On the Connectivity of Wireless Adhoc Networks utilizing Beamforming	2C. A/Prof., ANU
3	2007	Mr. James Tyler Ridgway	Development of an Infrared Wireless Communica- tion System	
2	2006	Ms. Saba Latif	Statistical Properties of a Parametric Channel Model for Multiple Antenna Systems	1C. Google, San Francisco, USA
1	2006	Mr. Andrew Norman	Investigation into Transmit Diversity for Third Generation CDMA Wireless Systems	

Refer	Refereed Publications Co-authored with Undergraduate Students				
No	Vear	Course	Name	Paner	

No.	Year	Course	Name	Paper	Citations
14	2020	ENGN4200	Ms. Xinran Li	[C90]	Cited by 1
13	2016	ENGN4718	Mr. Ross Pure	[J64]	Cited by 1
12	2016	ENGN4200	Mr. Jason Lee	[C73]	Cited by 3
11	2015	ENGN3712	Ms. Nilupuli Senadhira	[C68]	Cited by 4
10	2014	ENGN3706	Mr. Daniel Marshall	[C57]	Cited by 14
9	2014	ENGN2706	Mr. Craig Wang	[C54]	Cited by 7
8	2014	ENGN2706	Mr. Ross Pure	[J28]	Cited by 35
7	2014	ENGN4200	Ms. Xiaohui Zhou	[J30]	Cited by 29
6	2012	ENGN4200	Ms. Jing Guo	[J23]	Cited by 22
5	2010	ENGN4200	Mr. Omar Hashmi	[C28]	Cited by 2
4	2009	ENGN4200	Mr. Abhas Chandra	[C27]	Cited by 71
3	2007	ENGN4200	Mr. Xiangyun Zhou	[C18]	Cited by 8
2	2007	ENGN4200	Mr. Xiangyun Zhou	[C16]	Cited by 19
1	2006	ENGN4200	Ms. Saba Latif	[C17]	Cited by 2

RESEARCH RELATED MEDIA INTERVIEWS AND STUDENT PROFILES

- 1 2018: Recognising excellence: the 2018 VC's Awards for Supervision Excellence. https://cecs.anu.edu.au/news/recognising-excellence-2018-vcs-awards-excellence
- 2 2016: Interview with 2CC (local Canberra) radio station on 13 July, 2016 regarding wireless power transfer.
- 3 2016: Breakthrough in powering wireless sensors: http://www.anu.edu.au/news/all-news/breakthrough-in-powering-wireless-sensors#
- 4 2016: Student alumni research profile (Daniel Marshall): https://cecs.anu.edu.au/news/alumni-recognised-high-quality-research
- 5 2016: ANU BE R&D research showcased in IEEE Communications Society Asia Pacific Region Newsletter: http://site.ieee.org/comsoc-apb/files/2016/07/newslist49.pdf
- 6 2015: Student profile (Ross Pure). https://eng.anu.edu.au/news/meet-ross-pure-published-2nd-yr-engineering-rd-student

Engagement with Industry

- 1 Attended and presented at the ANU-OPTUS Bushfire Workshop No. 2, Spring Valley, Canberra, 9 Oct. 2023.
- 2 Attended the ANU-OPTUS Bushfire Workshop No. 1, Spring Valley, Canberra, 16 June 2022.
- 3 Meeting with German company Dryad (https://www.dryad.net/) to discuss sensor technologies and solutions, May 2022.
- 4 Meeting with Australian company Wildlife Drones (https://wildlifedrones.net/) to discuss drone tracking solutions, March 2022.
- 5 Attended the Siemens Australia 2017 Digitalize Conference, Sydney in Aug. 2017.
- 6 S. Durrani and N. Yang, Presentation before DFAT/ASD visiting group, ANU, April 2017.
- 7 ANU media release on breakthrough in powering wireless sensors in July 2016: http://www.anu.edu.au/news/all-news/breakthrough-in-powering-wireless-sensors#. This also led to a 7 minute interview on 2CC radio station (estimated audience 6000).

Continued Professional Development

- 1 Completed the "ANU HDR Supervision Annual Registration, 2019-present.
- 2 Attended the "*Examination of theses: selecting examiners, and on being an examiner*" workshop, CHELT, May 2012.
- 3 Attended the "Coaching in doctoral supervision: Developing candidate autonomy" workshop, CHELT, May 2012.
- 4 Attended the "ANU Future Research Leaders Program (FRLP), CEDAM, Sem 2, 2011.
- 5 Attended the "Induction for New Supervisors" workshop, CEDAM, Nov. 2007.
- 6 Attended the "Postgraduate Advising" workshop, CEDAM, June 2005.

EDUCATION

Invited Talks and Workshops

- 1 S. Durrani, J. Simmons, A. Bastine and J. Friel, Organized *Knowledge Sharing Session* for engineering convenors, focusing on My Timetable tips and best practices, July, 2022.
- 2 **S. Durrani**, Invited as a speaker at the *2022 CECS Promotions Information Session* for prospective applicants, June 2022.
- 3 **S. Durrani, J. Simmons and J. Friel**, Organized *Knowledge Sharing Session* for engineering convenors, focusing on Wattle tips and best practices, July, 2021.
- 4 **S. Durrani**, Invited to talk to academics as part of RSEEME Convenor Induction Session on *Teaching and Course Coordination*, Oct. 2019.
- 5 **S. Durrani**, Invited to participate as a panel member in *Research Methods class for ENGN2706 Students*, March 2019.
- 6 S. Durrani, Invited to share supervision experiences at the CECS HDR Supervision Forum, Feb. 2019.
- 7 **S. Durrani**, Invited to participate in the *Sharing Supervision Stories*, ANU HDR Supervision Workshop, Nov. 2018.
- 8 S. Durrani, Boosting Learning Using Poll Everywhere, ANU TELfest seminar, Nov. 2018.
- 9 **S. Durrani**, Invited to give a talk to ECRs regarding *Demystifying the Dark Arts of Teaching*, CECS Semeter 2 Bootcamp, June 2018.
- 10 **S. Durrani**, *Effectively Managing your PhD Supervisor*, Communications research group seminar, June 2018.
- 11 **S. Durrani**, Invited to participate in CHELT professional development modules for early career researchers (ECRs) in Science (CMBE, CPMS & CECS): *Module ECR2: The Teaching Research Nexus*, CHELT, ANU, Aug. 2017.
- 12 **S. Durrani**, Invited to give a talk to visiting Indonesian academics regarding *Making Expert Thinking Visible*, CHELT, ANU, Dec. 2016.
- 13 **S. Durrani**, Invited to act as facilitator for session *How do we leverage fellowship for promotion and reward?*, ANU EFS Colloquium, May 2016.
- 14 **S. Durrani**, Invited to give a talk at EF6 workshop regarding *Developing your Philosophy of Teaching and Learning*, CHELT, ANU, May 2016.
- 15 **S. Durrani**, *Research-Based Framework for Supervision of Undergraduate Research Projects*, CECS Teaching and Learning Seminar Series, Sep. 2015.
- 16 S. Durrani, Making Expert Thinking Visible, ANU Teaching and Learning Colloquium Seminar, June 2015.
- 17 **S. Durrani**, Invited to talk to academics in the Research School of Engineering regarding *Feedback*, Oct. 2012.
- 18 **S. Durrani**, Invited to talk to academics in the Research School of Computer Science regarding *How to be an effective teacher*, March 2012.
- 19 S. Durrani, Running tutorials and labs in Engineering, CECS Teaching Quality Program, July 2011.
- 20 **S. Durrani**, *Using Wattle for Course Entry and Exit Surveys*, CECS Education Innovation Series Seminar, July 2010.
- 21 **S. Durrani**, Using Simulation Tools to Promote Learning in Higher Education, CECS Seminar, Nov. 2007.

Mentoring

- 1 Referee and nominator for Dr. Xiaolin (Shannon) Wang (recipient of Vice-Chancellor's Award for Early Career Academics, 2021).
- 2 Mentor for Dr. Catherine Galvin (recipient of Dean's Award for Remote Teaching and Student Experience Awards in Aug. 2020).
- 3 Registered mentor with the ANU NECTAR Mentoring Program 2019-2020.
- 4 Referee for 14/29 members of the ANU Educational Fellowship Scheme (EFS) from College of Engineering & Computer Science (including 4 out of the 6 SFHEAs) (last updated June 2018).
- 5 Mentoring meeting with Dr. Rebecca Tan and Dr. Sorin Daniliuc, Research School of Accounting, ANU regarding adopting Mastering (Pearson) in BUSN1001, Dec. 2017.
- 6 Mentoring meeting with Dr. Jennie-Ann Mallela, ARC DECRA Fellow, Research School of Biology & Research School of Earth Sciences, ANU in 2016.
- 7 Worked closely with Assoc. Prof. S. Kalyanasundaram, Research School of Engineering in 2017. The ENGN2217 course satisfaction improved to 80% in 2017 (2016: 34%, 2015: 31%). Myself and Assoc. Prof. S. Kalyanasundaram were awarded the inaugural **RSEng Education Team Award** in July 2017.
- 8 Mentoring meeting and emails with Dr. Patrick Haslum, Research School of Computing in Semester 2, 2017. The COMP1730 course satisfaction improved from 29% in 2016 to 50% in 2017.
- 9 Referee for Dr. David Nisbet (winner of 2015 CECS Dean's Award for Teaching Excellence in the category "Award for Contributions to Programs that Enhance Student Learning".
- 10 Referee for Prof. Peter Christen (winner of 2014 VC's award for excellence in supervision).
- 11 Referee for 4 successful IEEE Senior Member applicants (Dr. Zubair Khalid, 2020 Dr. N. Yang, 2018, Dr. J. Kim, 2015, Dr. Xiangyun Zhou, 2014).

Teaching Equipment Grants (\$323k in total to date)

- 1 D. Shaddock, **S.Durrani** and E. Scipione, "Enabling world-leading remote education and establishing a new advanced Manufacturing", ACT PIP Grant (\$40k), 2021.
- 2 **S. Durrani** and X. Zhou, "Purchase of MOKU lab instruments", Research School of Engineering Grant (\$75k), 2018.
- 3 **S. Durrani**, "Telecommunications Instructional Modeling System (TIMS)", CECS Deans Teaching Equipment Grant, (\$150k), 2010.
- 4 E. Scipione and **S. Durrani**, "Upgrade of Electronic Circuits labs", ANU Teaching Equipment Fund Grant, (\$58k), 2008.

Undergraduate Student Awards

Note: For awards 1-6 below, I was honours supervisor of the students. For awards 7-9, I was course convenor and referee for the students.

1 ANU University Medal

- (a) Nicola Armstrong, 2021
- (b) Tianheng Zhang, 2019.
- (c) Ross Pure, 2018.
- (d) Daniel Marshall, 2015.
- (e) Craig Wang, 2014.
- (f) Jing Guo, 2012.
- (g) Xiangyun Zhou, 2007.

2 ANU CECC Ian Ross Honours Scholarship

- (a) Finn Pulsford, 2024.
- (b) Ian De Jongh, 2018.

3 ASD-ANU Co-Lab Honours Grant

(a) Finn Pulsford, 2024.

4 ANU Honours Scholarship

(a) Xiaohui (Katrina) Zhou, 2014.

5 Engineer's Australia Awards

- (a) Jing Guo, Institution of Engineering & Technology (IET) Student Prize, 2012 (for outstanding achievements as an ANU engineering student).
- (b) Syed Omar Hashmi Winner of ITEESPAN Annual Student Presentation and Awards Night, Engineers Australia, 2009.

6 CEA Technologies Prize in Telecommunications

- (a) Jing Guo, 2011.
- (b) Syed Omar Hashmi, 2009.
- (c) Santit Traithavil, 2008.
- (d) Vikas Sharma, 2007.
- (e) Xiangyun Zhou, 2006.

7 Department of Engineering Awards

- (a) Andrew Norman, Summer Research Scholarship (4th year), 2005-2006.
- (b) Santit Traithavil, Engineering Research and Development Scholarship (2nd year), 2005-2006.

8 Defence Nuclear Science and Technology Scholarship

(a) Aisha Amin-Wood, 2022 (student in my ENGN1218 course; I was her referee).

9 ABC Women in Broadcast Technology (WiBT) Scholarship

(a) Elizabeth Cowling, 2017 (student in my ENGN2218 course; I was her referee).

10 Lisa Brodribb Scholarship for Women in Engineering

(a) Ruth Kravis, 2018 (student in my ENGN2218 course and undergraduate tutor for peer-assisted student drop-in sessions in my engn1218 course).

Masters Courses

- 1 ENGN6626 Digital Communications, Semester 1, 2013 (23 students).
- 2 ENGN6626 Digital Communications, Semester 1, 2012 (23 students).
- 3 ENGN6626 Digital Communications, Semester 1, 2011 (35 students).
- 4 ENGN6626 Digital Communications, Semester 1, 2010 (28 students).
- 5 ENGN6612 Digital Signal Processing and Control, Semester 2, 2005 (22 students).

Undergraduate Courses

- 1 ENGN1218 Introduction to Electronics, Semester 2, 2024 (203 students).
- 2 ENGN1218 Introduction to Electronics, Semester 2, 2023 (170 students).
- 3 ENGN1218 Introduction to Electronics, Semester 2, 2022 (193 students).
- 4 ENGN1218 Introduction to Electronics, Semester 2, 2021 (209 students).
- 5 ENGN1218 Introduction to Electronics, Semester 2, 2020 (145 students).
- 6 ENGN1218 Introduction to Electronics, Semester 2, 2019 (159 students).
- 7 ENGN1218 Introduction to Electronics, Semester 2, 2018 (197 students).
- 8 ENGN1218 Introduction to Electronics, Semester 2, 2017 (238 students).
- 9 ENGN2228 Signal Processing, Semester 2, 2016 (103 students).

10 ENGN2218 Electronic System and Design, Semester 1, 2019 (139 students).

- 11 ENGN2218 Electronic System and Design, Semester 1, 2018 (202 students).
- 12 ENGN2218 Electronic System and Design, Semester 1, 2017 (204 students).
- 13 ENGN2218 Electronic System and Design, Semester 1, 2016 (171 students).
- 14 ENGN2218 Electronic System and Design, Semester 1, 2015 (181 students).
- 15 ENGN2218 Electronic System and Design, Semester 1, 2014 (161 students).
- 16 ENGN2218 Electronic System and Design, Semester 1, 2013 (154 students).
- 17 ENGN2218 Electronic System and Design, Semester 1, 2012 (162 students).
- 18 ENGN2218 Electronic System and Design, Semester 1, 2011 (160 students).
- 19 ENGN2218 Electronic System and Design, Semester 1, 2010 (145 students).

20 ENGN2211 Electronic Circuits, Semester 1, 2009 (117 students).

- 21 ENGN2211 Electronic Circuits, Semester 1, 2008 (125 students).
- 22 ENGN2211 Electronic Circuits, Semester 1, 2007 (83 students).
- 23 ENGN2211 Electronic Circuits and Devices, Semester 1, 2006 (85 students).
- 24 ENGN2211 Electronic Circuits and Devices, Semester 1, 2005 (88 students).

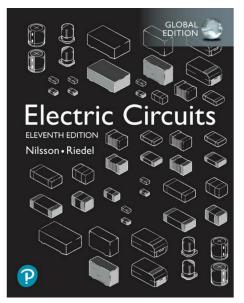
25 ENGN3226 Digital Communications, Semester 1, 2013 (78 students).

26 ENGN3226 Digital Communications, Semester 1, 2012 (53 students).

- 27 ENGN3226 Digital Communications, Semester 1, 2011 (58 students).
- 28 ENGN3226 Digital Communications, Semester 1, 2010 (51 students).
- 29 ENGN3226 Digital Communications, Semester 2, 2009 (19 students).
- 30 ENGN3226 Digital Communications, Semester 2, 2008 (8 students).
- 31 ENGN3226 Digital Communications, Semester 2, 2007 (14 students).
- 32 ENGN3227 Analogue Electronics, Semester 2, 2006 (37 students).
- 33 ENGN4612 Digital Signal Processing and Control, Semester 2, 2005 (17 students).
- 34 ENGN3100 Practical Experience, Semester 2, 2010 (46 students).
- 35 ENGN3100 Practical Experience, Semester 1, 2010 (45 students).
- 36 ENGN3100 Practical Experience, Semester 2, 2009 (43 students).

REVIEWER FOR TEXTBOOK

1 Reviewer for the following textbook: J. W. Nilsson and S. A. Riedel, *Electric Circuits*, 11th Global edition, Pearson, 2019.



Acknowledgments for the Global Edition

Pearson would like to thank and acknowledge the following people for their contributions to the Global Edition.

Contributors

Murat Doğruel, Marmara University Sachin Jain, National Institute of Technology Raipur Sanjay H.S., M.S. Ramaiah Institute of Technology Babu K.S., M.S. Ramaiah Institute of Technology

Reviewers

Chayanika Bhagabati, Assam Down Town University Salman Durrani, Australian National University Marc A. Eberhard, Aston University Gang Lei, University of Technology Sydney Nikhil Marriwala, University Institute of Engineering and Technology, Kurukshetra University Mohammad Nassereddine, American University in Dubai Nalan Özkurt, Yaşar University Ha Pham, University of Technology Sydney

ENGAGEMENT WITH INDUSTRY

- 1 Liaised with Liquid Instruments, Emona Instruments, National Instruments and Pearson Australia regarding hardware platforms, simulation softwares and online learning tools for courses in Electronics and Communications major, 2010 - present.
- 2 Presentation before *Research School of Engineering Industry Advisory Board* on Electronics and Communications major, May 2016.
- 3 Organized guest speakers from industry (Australian Communications and Media Authority, CEA Technologies, Dolby and Qualcomm) for courses in Electronics and Communications major.

EDUCATION RELATED MEDIA INTERVIEWS AND CONTRIBUTIONS

- 1 2020: Combining Poll Everywhere with Pedagogy, published in ANU CLT Interact Newsletter, Oct. 2020. https://teaching.weblogs.anu.edu.au/2020/10/07/combining-poll-everywhere-with-pedagogy/
- 2 2018: ANU Telfest talk published on YouTube. https://www.youtube.com/watch?v=XXuyRHYoETI
- 3 2018: Portfolio for successful ANU Vice-Chancellor's Award for Excellence in Supervision: https://services.anu.edu.au/system/files/award-grant/2018-vc-supervision-durrani. pdf
- 4 2017: Boosting participation with Poll Everywhere, published in ANU EFS News, Issue no. 2, Dec. 2017. https://services.anu.edu.au/files/publication-collection/EFS\%20News\%20Dec\%202017. pdf
- 5 2017: Elizabeth Cowling, a student in my ENGN2218 course, is awarded ABC WiBT Scholarship: https://cecs.anu.edu.au/news/anu-student-awarded-abc-women-technology-scholarship-0
- 6 2016: Friend of ANU Fifty50 Profile (one of the most popular posts on the ANU Fifty50 blog for 2016): https://anufifty50.wordpress.com/2016/04/29/salman-durrani/
- 7 2015: Faces of ANU Interview. https://www.facebook.com/FacesofANU/photos/a.546205175469840/ 841445832612438
- 8 2014: Fellowship with HEA: https://cecs.anu.edu.au/news/dr-salman-durranis-fellowship-hea
- 9 2012: Portfolio for successful ANU Vice-Chancellor's Award for Teaching Excellence: https://services.anu.edu.au/system/files/award-grant/2012-vc-teaching-durrani.pdf

Continued Professional Development

- 1 Attended the "CECS Teaching and Learning Intensive", workshop by ANU Centre for Learning and Teaching (CLT), The Australian National University, July 2020.
- 2 Attended the "*Deep and Interactive Learning in Lectures*", seminar by Glen O'Grady (Director CHELT), The Australian National University, Dec. 2017.
- 3 Attended the "ANU Educational Fellowship Scheme Colloquium", The Australian National University, May 2016.
- 4 Attended the *"EFS Masterclass: Engaging Students in research-led education"* workshop by Prof. Mick Healey (Emeritus Professor, University of Gloucestershire), The Australian National University, Aug. 2015.
- 5 Attended the "*Closing the Loop: Good practice to good research to good practice*" workshop by Dr. Lesley Jolly, The Australian National University, June 2013.
- 6 Attended the "*Panel 7: Conceptualising research-led education at the ANU*" workshop as part of ANU Educational Research Conference, Nov. 2011.
- 7 Attended the "Stage 1 Competency Standards Launch" national workshop organised by Engineers Australia, Sep. 2011.
- 8 Attended the *"Using Technology In Your Teaching To Improve Learning Outcomes"* workshop organised by Pearson Australia, The Australian National University, June 2011.
- 9 Invited to attend the "How can we develop learning trajectories that recognise, plan and support lifelong professional learning?" workshop by Prof. Michael Eraut (Univ. of Sussex, UK), CEDAM, ANU, Nov. 2007.
- 10 Completed the "Graduate Certificate in Higher Education", CEDAM, ANU, 2005 2007.

- EDUC8002 Learning and Teaching in Higher Education, Semester 2, 2005.
- EDUC8003 Curriculum Design and Innovation, Semester 1, 2006.
- EDUC8004 Research Higher Degree Supervision, Semester 1, 2007.
- EDUC8001 Enhancing your Academic Practice, Semester 2, 2007.
- 11 Attended the "Introduction to Teaching & Learning for UQ" workshop, The University of Queensland, Nov. 2004.
- 12 Attended the *"Effective Teaching"* workshop by engineering educationalists Dr. Richard M. Felder and Dr. Rebecca Brent, The University of Queensland, Oct. 2003.

SERVICE

Membership of University/College/School Committees

Level	Year	Role	Committee	Noteworthy Contribution
			Research	
ANU	2014	Backup Chair	ANU ERA Panel 10 (Technology)	I attended all the meetings to discuss the strategies and assisted the Chair in completing the tasks.
School	2015 - 2017	Academic respon- sible	Stakeholder for Communications research theme in the new col- lege web site redesign	I was responsible for setting up and maintain- ing the communications group research page.
School	2013	Acting Group Leader	Applied Signal Processing research group	I was acting group leader for 4 months (April - July) during Prof. Rod Kennedy's leave of ab- sence.
			Service	
ANU	2024	Member	Selection Committee for Direc- tor, School of Engineering	
College	2021	Member	CECS Local Promotion Commit- tee	
College	2013- 2012	Member	CECS Advisory Body Steering Committee	This was a new body set up in 2012 (com- prising CECS academic, general and adjunct staff). As a member of the advisory body, I contributed to the committee discussions to generate agenda items for the advisory fo- rum, including mentoring of early career re- searchers within CECS.
College	2008	Member	Outreach Working party for CECS Retreat	
School	2023	Member	FERL Conversion Panel	
School	2023	Chair	Selection committee for Educa- tional Officer position	
School	2021	Member	Selection committee for Educa- tional System Officer position	
School	2015	Member	Teaching Space Working Com- mittee, Research School of Engi- neering	
School	2014	Member	Liaison Committee for Level C/D position in Electrical Engineer- ing, Research School of Engineer- ing	Standard role
School	2012	Member	Liaison Committee for Associate Professor - Solar Thermal Energy Engineering position, Research School of Engineering	Standard role
School	2012	Member	Selection Committee for post- doc position within the Research School of Engineering	Standard role
School	2011	Member	Liaison Committee for Fellow Po- sition within the Research School of Engineering	Standard role

Level	Year	Role	Committee	Noteworthy Contribution
		· ·	Education	
ANU	2018- 2021	Member	ANU Appeals Panel	Served as committee member for 2 appeal cases.
ANU	2018- 2020	Member	ANU Student Survey Working Group	I contributed to the wording and ordering of the SELT survey questions currently being used by ANU.
ANU	2015- 2014	Member	Inaugural ANU Educational Fel- lowship Scheme Committee	
ANU	2014-	Member	ANU Vice Chancellor's Awards	I contributed to the group discussions to rank
	2013		for Excellence in Education Com- mittee	the successful candidates and to identify can- didates for national teaching awards.
ANU	2009	Member as ANU repre- senta- tive	Program Reference Group, CIT	
College	2015	Member	Course Review Group, Research School of Computer Science	I contributed to the committee discussions and the joint report, especially the review of the large second year computing course.
College	2010	Member	Dean's Teaching Awards Selec- tion Committee	
College	2009	Member	Dean's Teaching Awards Selec- tion Committee	
College	2009	Member	CECS Working Group on Educa- tion	
College	2010- 2008	PhD Student Advisor	CECS, ANU	I proposed the setting up of a PhD student mentoring programme within CECS. This was set by Deb Pioch in 2008.
School	2023	Member	Conversion Panel	
School	2021	Chair	Selection committee for Educa- tional Lab Developer positions	Under my leadership, the committee appointed two lab developers.
School	2020	Member	CECS ANU Open day organising committee	I was the School representative response for planning and coordinating activities across the School.
School	2018	Member	Revision of engineering funda- mentals committee	
School	2016-	Discipline	Electronics and Communications	
	2015	Chair	Systems Major	
School	2016- 2014, 2012	Member	Curriculum Development Com- mittee, Research School of Engi- neering	
School	2010- 2008	Student Mentor	BE Research and Development program, School of Engineering, ANU	
School	2008- 2006	Program Advisor	Department of Engineering, ANU	I gave enrollment advice to undergraduate students, including at Melville Hall sessions at the beginning of each year.
School	2005	Member	Department of Engineering Scholarships Committee	

Editorial and Reviewer Activities

- JOURNAL EDITORIAL BOARD

No.	Year(s)	Journal	No. of Manuscripts		
1	Jan. 2024 – present	IEEE Transactions on Wireless Communications			
2	Feb. 2015 — 2020	IEEE Transactions on Communications	Overall, 71 manuscripts handled with 30 ac- cepted and 41 rejected		
3	June 2014 — June 2015	Ad Hoc & Sensor Wireless Networks Journal	10		

- REVIEWER FOR INTERNATIONAL JOURNALS

No.	Journal	2006- 2011	2012- 2017	2018- 2022	2023	2024	2025	2026	Total
1	IEEE Transactions on Wireless Communications	2	13	24		2			41
2	IEEE Transactions on Communi- cations	4	12	5					21
3	IEEE Transactions on Signal Pro- cessing	2	5						7
4	IEEE Transactions on Vehicular Technology		4	11					15
5	IEEE Journal on Selected Areas in Communications		2	1					3
6	IEEE Transactions on Antennas and Propagation	1							1
7	IEEE Transactions on Aerospace and Electronic Systems		1			1			2
8	IEEE Transactions on Green Com- munications and Networking		1						1
9	IEEE Transactions on Information Theory			1					1
10	IEEE Transactions on Mobile Computing			4					4
11	IEEE Communications Letters	9	9	1					19
12	IEEE Wireless Communications Letters		3	4					7
13	IEEE Signal Processing Letters		1						1
14	IEEE Sensors Journal		1						1
15	IEEE Internet of Things Journal			7					7
16	IEEE Internet of Things Magazine			1					1
17	IEEE Access			2					2
18	IET Communications		3						3
19	Wireless Communications and Mobile Computing (Wiley)	3	1						4
20	Wireless Personal Communica- tions (Springer)	1	1						2
21	Mathematical Methods in Applied Sciences			1					1
22	Others	4	2						6
	TOTAL	26	59	62	0	3			147

Note: In the last 5 years, I have had to decline around 10 review invitations per year for IEEE Transaction papers due to other commitments.

- EXTERNAL THESIS EXAMINER
 - Examiner for 4 international PhD thesis:
 - 1 2022: University of British Columbia, Canada
 - 2 2021: Lahore University of Management Sciences, Pakistan
 - 3 2018: IIT Guwahati, India.
 - 4 2015: University of New Brunswick, Canada.
 - Examiner for 31 external PhD thesis:
 - 1 2024: University of Sydney.
 - 2 2024: Monash University.
 - 3 2024: University of Sydney.
 - 4 2023: RMIT University.
 - 5 2022: University of New South Wales.
 - 6 2022: University of Sydney.
 - 7 2022: RMIT University.
 - 8 2022: University of Sydney.
 - 9 2021: Flinders University.
 - 10 2021: RMIT University.
 - 11 2021: Macquarie University
 - 12 2020: Monash University.
 - 13 2020: RMIT University.
 - 14 2020: RMIT University.
 - 15 2020: University of Technology Sydney.
 - 16 2019: University of Melbourne.
 - 17 2019: Macquarie University.
 - 18 2019: University of Melbourne.
 - 19 2018: University of Sydney.
 - 20 2018: Macquarie University.
 - 21 2017: Royal Melbourne Institute of Technology.
 - 22 2016: University of Technology Sydney.
 - 23 2016: University of Melbourne.
 - 24 2016: Macquarie University.
 - 25 2016: University of Melbourne.
 - 26 2016: Queensland University of Technology.
 - 27 2015: University of Melbourne.
 - 28 2015: University of Tasmania.
 - 29 2013: Queensland University of Technology.
 - 30 2009: Queensland University of Technology.
 - 31 2008: Monash University.
 - Examiner for 4 external MPhil theses:
 - 1 2015: Macquarie University.
 - 2 2011: Queensland University of Technology.
 - 3 2009: Victoria University.
 - 4 2008: University of Queensland.

Conference Related Professional Activities

- CONFERENCE ORGANISING COMMITTEE MEMBER
 - 2016 (17th) Australian Communications Theory Workshop (Finance Chair).

AusCTW is the leading national conference on telecommunications. As finance chair (http://ausctw2017.org/committee.html), I worked closely with the conference chair. In particular, I took lead in securing additional funding from Research School of Engineering (\$5000/-) and IEEE ACT Section (\$500/-) to successfully host the conference at ANU (100 attendees).

- CONFERENCE TECHNICAL PROGRAMME COMMITTEE CO-CHAIR
 - 2023 IEEE Wireless Communications and Networking Conference (WCNC) (co-chair for Track 3 AI and Optimisation for Wireless Communications).
 - 2019 IEEE International Conference on Wireless for Space and Extreme Environments (WISEE) (TPC co-chair of Workshop on Integrated Ground-Air-Space Borne communications (IGASC)).
- CONFERENCE SESSION CHAIR
 - 2016 IEEE International Conference on Communications (ICC), Kuala Lumpur, Malaysia (Session CT-IS2: Communication Theory Interactive Presentations).
 - 2016 IEEE International Conference on Signal Processing and Communication Systems (ICSPCS), Gold Coast, Australia (Session O9: Wireless Networks).
 - 2014 IEEE International Conference on Communications (ICC), Sydney, Australia (Session CT-P1: Communication Theory Interactive Presentations).
 - 2007 IEEE PIMRC conference, Athens, Greece (Session 36: Smart Antennas I & Session 62: Selforganization of wireless networks).
- CONFERENCE TECHNICAL PROGRAMME COMMITTEE MEMBER
 - IEEE International Conference on Communications (ICC): 2024–2012.
 - IEEE Global Telecommunications Conference (Globecom): 2024–2016.
 - Australian Communications Theory Workshop (AusCTW): 2023, 2012, 2011.
 - IEEE Vehicular Technology Conference (VTC): Fall: 2019. Spring: 2021, 2018, 2017.
 - IEEE Globecom Workshop Emerging Technologies for 5G Wireless Cellular Networks: 2017–2014.
 - IEEE Globecom Workshop Sub-6 GHz Spectrum for 5G Progress: 2017.
 - IEEE International Conference on Signal Processing and Communication Systems (ICSPCS): 2016–2013.
 - International Conference on Telecommunications (ICT, 22nd): 2015.
 - International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM, 10th): 2015.
 - IEEE Personal, Indoor, and Mobile Radio Communication Conference (PIMRC): 2021, 2012, 2011.

Professional Services to Wider Community

- IEEE ACT CHAPTER CHAIR
 - I was the Chair of the ACT Chapter of the IEEE Signal Processing and Communications Societies in 2015-2016. My notable achievements include:
 - * Organised 5 technical activities in 2015, including 2 speakers from IEEE Signal Processing Society's Distinguished Lecturer program (Prof. Akihiko Sugiyama and Prof. Hamid Krim).
 - * Organised 10 technical activities in 2016, including 1 speaker from IEEE Communications Society's Distinguished Lecturer program (Prof. Jalel Ben-Othman) and 1 speaker from IEEE Vehicular Technology Society's Distinguished Lecturer program (A/Prof. Marco Di Renzo).
 - * ANU BE R&D research was reported in IEEE Communications Society Asia Pacific Region Newsletter, No. 49, May 2016, pp. 15-16. http://site.ieee.org/comsoc-apb/files/2016/ 07/newslist49.pdf
 - * Under my leadership, the chapter was awarded IEEE Signal Processing Society's Chapter Certification, in recognition of the chapter activities (valid for 4 years from 1-1-2017 through 31-12-2020).
- OUTREACH ACTIVITIES
 - ACADEMIC REPRESENTATIVE, CECS MARKETING TRIP TO MALAYSIA
 - * I was the sole academic representative in the CECS marketing trip to Malaysia on May 23, 2016. We visited our partner institutions German-Malaysian Institute (GMI) and University of Kuala Lumpur (UniKL) to discuss issues such as strengthening pathways into ANU degrees and possible PhD collaborations. I was supposed to give an invited talk at UniKL, but this was cancelled by our hosts at the last minute due to constraints on their side.
 - GUEST LECTURES
 - * **S. Durrani**, "Matlab Applications in Signal Processing & Communications Research", ENGN2229 Computing for Engineering Simulation, Semester 1: 2014, Semester 2: 2013, 2012, 2011 and 2010.
 - * **S. Durrani**, S. Durrani, "Using Simulink for Simulation of Digital Communication Systems", ENGN3226 & ENGN6626 Digital Communications, Semester 1: 2014.
 - ANU OPEN DAY
 - * I am passionate about participating in outreach activities and promoting engineering in the wider community. I have developed and presented Electronics and Telecommunications demos and regularly participated in ANU Open Day: 2019, 2015-2014, 2012-2005.
 - ANU EXTENSION WORKSHOP
 - * ANU Extension provides an enhanced learning experience for year 11 and 12 students in ACT schools and colleges (http://extension.anu.edu.au/).
 - * I have developed and presented an ANU Extension workshop to year 11 and 12 students on *How does error correction coding work in Bluetooth,* Aug. 2014 and Aug. 2016.
 - The feedback has been very positive with comments such as I learnt more than I expected (2014) and Loved the workshop! Found it informative, interactive and surprisingly relatable (2016).
 - ARCHIMEDES DAY WORKSHOP
 - * Archimedes Day was an ANU outreach activity for year 11 and 12 students, that ran from 2007-2005.
 - * I conducted ANU Archimedes Day Telecommunications workshop on *Coding to Keep a Secret*: June 2007 (one session), June 2006 (one session), Sep. 2005 (four sessions) and July 2005 (two sessions).

Continued Professional Development

- 1 Completed the "Leading Learning and Teaching at ANU Training", May, 2022.
- 2 Attended the "ANU & CECS Governance Training Pilot Training", Feb. 2022.
- 3 Completed PULSE module on "Selection Committee Chair Training", April 2021.
- 4 Completed PULSE module on "ANU Privacy Awareness Training", April 2021.
- 5 Completed PULSE module on "ANU WHS Risk management Training", April 2021.
- 6 Completed an eLearning course on "Infection Control Training COVID 19", May 2020.
- 7 Attended the Australian Institute of Management three day workshop *"The Supervisor Program"*, Nov. 2013.
- 8 Attended the workshop "Recruitment and Selection of Staff", Nov. 2013.
- 9 Attended the half-day workshop "Having Powerful Conversations", Sep. 2013.
- 10 Completed the CEDAM on-line course "Workplace Discrimination and Harassment Legal Compliance", April 2005.