



The Institute of Electrical and Electronics Engineers, Inc.

# VOLUME 49 Issue 3

Secretariat

# October 2022

1

AUSTRALIAN PROFESSIONAL CENTRE PO Box 576 CROWS NEST NSW 1585 Tel: +61 2 94318600 IEEE NEW SOUTH WALES SECTION ARBN 078 576 495 ABN 34 078 576 495

> Editor: Bill Sloman e-mail: bill.sloman@ieee.org Web page: http://sites.ieee.org/nsw/

### **Contents:**

Pages 2 - 3 Chair's message

- Page 4 San Murugesan wins IEEE Region 10 Outstanding Volunteer Award for 2022
- Page 5 Talking to secondary school students
- Page 6 Flyer for diversity lecture
- Pages 7 9 Sensors Council Spring School at Macquarie
- Page 10 -11 Sight at ANZSCOM in Adelaide
- Page 12 Flyer for Sensing Technology Conference in December 2022
- Pages 13 17 New and upgraded members

Page 18 If you want this on paper by post, and aren't already getting it that way.

### Editorial:

This is the twenty fourth newsletter I've edited. This one is being edited with the very latest stable version of Libre Office -7.4.0.3.

The 50-year dinner was a success. I certainly enjoyed it, and - in my capacity as section treasurer - I got to see where the money that paid for it came in from and was responsible for paying it out again.

We've decided to back Dylan Lu's IFEEC 2023 comference bid as a 40% sponsor. As treasurer I know that this is a finacial risk that we can afford to take. As my late wife's husband, I know that getting international conferences here in Sydney is important for graduate students who study in Sydney.

Her obituaries emphasised that she was an excellent collabortive researcher, and several of them also emphasised that she was an active participant in lots of conferences, not only as a speaker and a discussant in the formal part of the conference, but also in the informal social activities. People who had first met her as very junior researchers at conferences emphasised how this had helped their subsequent careers.

The IEEE is all about encouraging scientific and technical communication. Peer-reviewed journals are part of the mix, but conferences are important too.

## Chairman's Message,

The end of the year is fast approaching. Things are gradually reverting to pre-COVID, in that people are going out, but they are not attending meetings or events in the numbers they did previously.

People have become too comfortable attending events on-line, which is good for gaining the technical content but misses the networking and social interaction. It is from the networking and the social interactions that the committee members get suggestions and ideas for events and the volunteers to help us make these events happen.

Remember you are part of the Section. What would you like the Section to do for you, and what can you do for others?

Is it technical in nature: technical presentations, keeping one up to date with new technology, site visits, understanding what research is being undertaken, or more social and networking activities?

Do you know any other IEEE members in your place of employment? Would you like to be involved in mentoring?

The Section has a STEM out reach and is always looking for people to be involved in helping young people become more aware of engineering.

We are all growing older and will eventually die. Our experience is lost forever when we die if no record has been made of it. Australia has been at - and stays at - the leading edge of many technologies. If you have been involved with any of these, please let us know so that steps can be taken to ensure the information is available to future generations. It may be as oral history, as documents or as a Milestone (https://ethw.org/Milestones:List\_of\_IEEE\_Milestones).

Currently Australia has only one Milestone - Parkes Radio Telescope.

We have had joyous and very sad occasions over the past year.

In July, there was UNITE 2022, where over 160 members came together to network and share knowledge about the activities the Section and its associated groups. This was the first since 2019, as COVID had lead to both the 2020 and the 2021events being abandoned. Those who attended said that it had been very successful and that they were looking forward to attending UNITE 2023. The organisers are always looking for people willing to become involved in helping to make it a success.

In August, the History Committee organised a Gala Dinner to celebrate the 50<sup>th</sup> anniversary of the Section. It was held at the Darling Harbour Novotel and attended by 67 guests. Everyone who attended praised the event, especially the fireworks display.

In September, Queen Elizabeth II died and her funeral ended her 70-year reign of 70 years, the end of an era. The only English Monarch that most of us have known.

The Section has had its own sadness with the death in June, of Professor Anne Cutler, the wife of our treasurer, Bill Sloman. Our thoughts are with him at his loss. An obituary can be found at

#### https://www.westernsydney.edu.au/research/vale-distinguished-professor-cutler

Editors note: My wife didn't have much to do with the section, and rarely published in IEEE journals, but if we can remember the Queen here, a professor of pyscholinguistics isn't all that far out of place.

The JILS lectures are starting again after having stopped for while because of changes in the management of the Sydney division of Engineers Australia (EA). A new General Manager (Jamie Burrage) and Member Engagement Officer have taken over and I am working with them. I am trying to ensure that the Section maintains a working relationship with various groups within EA and other like minded institutions. If you belong to an 'institution', that we as the IEEE should be involved with, please let me know so that steps can be taken to initiate potential co-operation between the two organisations.

The Section AGM will held at UTS on Friday 18 November 2022. It will be a hybrid event. The meeting will be catered for those who attend physically. The Section urgently needs someone to volunteer as Secretary. We thank Tony Zaglas for filling in this year. Check the list of positions on the Section website (<u>https://r10.ieee.org/nsw/committe/</u>), if you see a position you are interested in, please contact me and we can discuss how you can be involved.

The Life Members Affinity Group will have an end of year luncheon at Sydney Rowing Club at Abbotsford on Tuesday 13 December. All members are invited. Details will be sent out closer to the date.

Colin Elston, Section Chair.

## Professor San Murugesan wins IEEE Region 10 Outstanding Volunteer Award for 2022



On behalf of the IEEE NSW Section I would like to congratulate IEEE NSW Computer Chapter Chair Adjunct Prof. San Murugesan on winning the 2022 IEEE Region 10 Outstanding Volunteer Award "for his outstanding and wide-ranging voluntary contributions and distinguished valuable services to the IEEE and Computer Society".

Prof. Murugesan is a Life Senior Member of IEEE and a Member of the IEEE Computer Society Board of Governors. He is Fellow of the Australian Computer Society as well as IETE and IICA. He served as an IEEE Computer Society Distinguished Lecturer for three terms.

In recognition of his services he was awarded the IEEE Computer Society Distinguished Service Certificate in 2018.

Prof. Murugesan has worked in Academia and Industry for more than forty years in numerous areas including the Internet of Things, AI, Cloud Computing, Green IT, Smart Systems, Health IT and Automation.

He has edited or co-edited several books and handbooks including the Wiley-IEEE *Encyclopaedia of Cloud Computing* (2016) and *Harnessing Green IT: Principles and Practice* Computer Society, 2011).

He has been editor in chief of *IT Professional* magazine (2014 -17) and editor of IEEE *Computer* (2013 -17) and currently is Associate Editor of IEEE Transactions on Cloud Computing. He is also on the editorial advisory board of IEEE *IT Professional*.

He is currently an active member of several IEEE and Computer Society Committees and Boards and Chair of IEEE Computer Society Magazines Operations committee.

He is a member of the Standing Committee of the IEEE flagship conference COMPSAC. He promoted the Computer Society's engagement with industry and practitioners. For the last seven years he has been organizing the IT in Practice (ITiP) Symposium at COMPSAC. He has also instigated the annual Advances in AI and Machine Learning Workshop at COMPSAC and has been co-chairing it since 2018.

Prof Murugesan has held several academic positions at Southern Cross University and at the University of Western Sydney. For futher information, go to his Web page :

www.tinyurl.com/san1bio

Tony Zaglas IEEE NSW Section Secretary

### PRE-UNIVERSITY STEM OUTREACH – VOLUNTEERS NEEDED

One of the functions of the IEEE's Educational Activities Board is to support the development of preuniversity STEM skills and promote aspirations towards an engineering career amongst primary and secondary school students.

The IEEE's primary vehicle for pre-university STEM outreach is <u>TryEngineering.org</u>, a website providing online resources (e.g. lesson plans, practical workshops and fun problem-solving activities, etc.) for both primary and secondary school educators and students.

Whilst many other STEM resources may be found online, TryEngineering is particularly comprehensive and has a strong engineering focus, with background materials including information on technical fundamentals, creativity and teamwork in the design process, and the social impacts of engineering, etc.

For several years the NSW Section EAB-TISP/TSSP coordinator (i.e. Dr Graeme Gwilliam, assisted by volunteers) has been running TryEngineering teacher training workshops. In 2021 Em Prof Graham Town took on this role with plans to expand the NSW Section's STEM outreach activities and support.

With COVID restrictions receding, and a skills shortage looming, the IEEE's pre-university STEM outreach activities are more important then ever. However, as we've learnt through COVID, the effectiveness of online resources is greatly enhanced if supported locally and personally.

For example, cooperative arrangements have been established to offer and support TryEngineering workshops within Discover Engineering STEM outreach events organised by Engineers Australia; the Working With Wind workshop has now been delivered to classes at a dozen high schools around NSW, supported by Macquarie University and facilitated online or in person by volunteer engineers.

Efforts are also underway to promote TryEngineering and local NSW Section support to schools and teachers through the NSW Dept of Education and other channels.

This is a call-out to IEEE NSW Section members to support the expansion of local STEM outreach activities. Volunteers are sought for for 1 -to- 2 hours on an occasional basis to provide online and/or in-person support, e.g. assisting teachers offering TryEngineering workshops, mentoring students doing TryEngineering workshops, and supporting other NSW Section STEM outreach activities under development.

If interested, please contact the NSW TISP/TSSP STEM Outreach Coordinator, Emeritus Professor Graham Town at <u>graham.town@mq.edu.au</u>, including your contact details, expected availability (days/times of week), and any specific interests or areas of expertise you are able to offer.

Thanks in advance, Graham Town.

p.s. Section members are also encouraged to participate in other pre-university STEM outreach activities, such as the STEM Professionals in Schools program run by the CSIRO, <u>https://www.csiro.au/en/education/programs/stem-professionals-in-schools</u>

### **Diversity Lecture Flyer**



# **Diversity, Equity and Inclusion: The Fundamentals**

Thursday 27 October, 2022, 12:00pm- 01:00pm AEDT



Arti is a scientist with a passion for social justice. She leverages her technical expertise in data and numerical analysis along with lived experience and work in diversity and inclusion to EDI for complex organisations. She has worked on inclusion and equity on projects for international tech bodies, universities, charities and schools. She takes an intersectional view of identity in her approach to EDI.

Arti is the CEO and Founder of Vividhata Pty Ltd, diversity and inclusion consultancy that delivers solutions in diversity and inclusion training, strategy and programmes. She has worked in higher education and the charity sector and has held positions that reflect her dual passions. She is currently an Adjunct Associate Professor Electrical Engineering at the University of Technology Sydney. She was also the Director for Inclusion, Diversity and Involvement for Anthony Nolan, a blood cancer charity. She is associated with the Inclusive Group (<u>https://www.inclusivegroup.co.uk/</u>).

Arti was awarded the 2020 IEEE Photonics Society Distinguished Service Award for exceptional contributions to the Photonics Society as a champion of Diversity and Inclusion initiatives. She was also awarded the OSA Diversity and Advocacy Recognition in 2020 for an unwavering dedication to promoting diversity and inclusion throughout the global optics and photonics community.

She writes a blog: http://artiagrawal.wordpress.com

Connect. Support. Inspire.

Arti Agrawal

CEO and Founder of

Vividhata Pty Ltd

in Engin

### Spring school at Macquarie University, Sydney

#### Title: Smart Sensors, ML and AI: Remote Monitoring During Challenging Times

The 2 day activities in the form of spring school was organized by the IEEE Sensors Council New South Wales Chapter with the financial support from IEEE Sensors Council and IEEE New South Wales section. The first day - 19<sup>th</sup> September - was devoted to technical talks and the second day- 20<sup>th</sup> September - was spent on hands-on activities to develop various Internet of Things (IoT) enabled sensor nodes.

The speakers for the first day were experts in the area of sensors, machine learning and artificial intelligence, and all of them are involved with the IEEE Sensors council either as a distinguished lecturer or an associate editor. Short biographies are attached below.

The event was promoted through IEEE vTools and 121 people registered for the first day. The speakers were from Australia, India, UK and USA.

The event was started at 2:00 pm Sydney time with an introduction of the Sensors council and the spring school by Prof. Subhas Mukhopadhyay, Chair of the IEEE Sensors Council NSW chapter.

Over 60 people were visible at zoom. The feedback from the attendees was very positive.

Forty-eight people registered for the second day hands-on activities. People were paired up for the hands-on work. They were given all the necessary electronics hardware and supervising support to help them develop an assortment of IoT enabled sensor nodes. The attendees enjoyed the event very much, as was evident from e-mails which came back from some of them.

A few pictures during the hands-on activities and networking are shown below.



https://drive.google.com/drive/folders/14hM8pCYXITxf1YqrIekqW20isydbnpSf?usp=sharing

Four students acted as tutor to help to supervise the hands-on activities. Two of them prepared the complete materials for the hands-on activities. Certificates were provided to all attendees including the tutors.

The academic heavyweights involved were

Professor Subhas Mukhopadhyay:

who is currently working as a Professor of Mechanical/Electronics Engineering, Macquarie University, Australia and is the Discipline Leader of the Mechatronics Engineering Degree Programme.

He is a Fellow of IEEE (USA), a Fellow of IET (UK), a Fellow of IETE (India), a Topical Editor of IEEE Sensors journal, an associate editor of IEEE Transactions on Instrumentation and Measurements, and IEEE Review of Biomedical Engineering.

He is the Editor-in-Chief of the International Journal on Smart Sensing and Intelligent Systems, and also a Distinguished Lecturer for the IEEE Sensors Council from 2017 to 2022 and the Founding Chair of the IEEE Sensors Council New South Wales Chapter.

We are allowed to touch the hem of his garments, but only on special occasions.

Professor Maryam Shojaei Baghini:

Maryam Shojaei Baghini (Senior Member, IEEE) is working currently as TATA Trust Chair Professor in frugal engineering. She is a Distinguished Lecturer of IEEE Sensors Council from 2022 to 2024 and is listed as one of the 51 selected Women Achievers in STEM by CII, India, in 2021.

Prof. Sanket Goel:

Sanket Goel is with the Department of Electrical and Electronics Engineering Department at BITS-Pilani, Hyderabad campus since 2015. He is an Associate Editor of IEEE Sensors Journal, IEEE Transactions on NanoBioscience, IEEE Access, Applied Nanoscience, Journal of Nanobiotechnology, Journal of Electrochemical Science and Engineering.

He is also a Visiting Associate Professor with UiT, The Arctic University of Norway. Recently he has been appointed as Dean, Research across the campuses of BITS Pilani

Professor Boby George:

Boby George is a professor with the Department of Electrical Engineering, IIT Madras. He joined the faculty there in 2010. He is serving as an associate editor for IEEE Trans. on Industrial Electronics, IEEE Trans. on Instrumentation and Measurement and IEEE Sensors Journal.

Professor Arokia Nathan:

Arokia Nathan is a leading pioneer in the development and application of thin film transistor technologies to flexible electronics, display and sensor systems. Formerly the Chair of Photonic Systems and Displays he is currently a Bye-Fellow and Tutor at Darwin College. He is a Fellow of IEEE, a Distinguished Lecturer of the IEEE Electron Devices Society and Sensor Council, a Chartered Engineer (UK), Fellow of the Institution of Engineering and Technology (UK), and winner of the 2020 IEEE EDS JJ Ebers Award.

Professor Pantelis Georgiou:

Pantelis Georgiou currently holds the position of Professor at Imperial College London within the Department of Electrical and Electronic Engineering. He is the head of the Bio-inspired Metabolic Technology Laboratory in the Centre for Bio-Inspired Technology; He is a senior member of the IEEE and IET and serves on the BioCAS and Sensory Systems technical committees of the IEEE CAS Society. He is an associate editor of the IEEE Sensors and TBioCAS journals. He is also on the IEEE sensors council. In 2013 he was awarded the IET Mike Sergeant Achievement Medal for his outstanding contributions to engineering and development of the bio-inspired artificial pancreas. In 2017, he was also awarded the IET Mike Sergeant Achievement Medal for his outstanding contributions to engineering and development of the bio-inspired artificial pancreas. He was also an IEEE Distinguished Lecturer in Circuits and Systems.

Professor Thomas Thundat:

Thomas Thundat is a member of Chemical and Biological Engineering's RENEW faculty. He was formerly Canada Excellence Research Chair professor at the University of Alberta, Edmonton, Canada, and is a Distinguished Professor (hon.) at the Indian Institute of Technology, Madras, and Centenary Professor at the Indian Institute of Science, Bangalore. Dr. Thundat is an elected Fellow of the American Physical Society (APS), the Electrochemical Society (ECS), the American Association for Advancement of Science (AAAS), the American Society of Mechanical Engineers (ASME), the SPIE, and the National Academy of Inventors (NAI). Dr. Thundat's research is currently focused on novel physical, chemical, and biological detection using micro and nano mechanical sensors and electrical power delivery using the single wire concept.

In other words, an impressive crew.

## **IEEE SIGHT at ANZSCON 2022**

ANZSCON - the IEEE Australian and New Zealand Young Professionals conference - is an event where young engineering students and young professionals meet and engage to becone acquainted with emerging trends in science and technology, to discuss present and future engineering challenges, to develop new skills and share technical, social and professional experiences.

It is held every two years bringing together IEEE members from 10 sections across Australia and New Zealand. ANZSCON 2022 was hosted by South Australia Section at the University of Adelaide on October 1-2, 2022.

I was invited to ANZSCON to present two sessions. The first was on Day 1 to introduce IEEE SIGHT [Special Interest Group on Humanitarian Technologies], which is a program run by the IEEE Humanitarian Activities Committee [HAC]. SIGHT enables IEEE volunteers to form groups that address challenges in their local areas, in partnership with other organisations. Working with these other partners enables SIGHT volunteers to bring togheter their own skills and knowledge to achieve positive social impact. SIGHT project work is paired with education and capacity building to develop groups' understanding of the sustainable development best practices that help achieve this impact.

At the end of Day 1 I gave the conference delegates a challenge – to form a team, find a problem the team is interested in, and an idea on how IEEE volunteers could address this problem with a SIGHT group. Teams then presented their ideas at a pitch session on Day 2. Four teams presented at the pitch session, their chosen problems included:

- A mobile STEM outreach program to promote engineering in rural South Australia;
- STEM outreach through camps for younger school children;
- Improving road quality and traffic flow in Northern Adelaide; and
- Virtual tools to enhance education in Auslan (Australian sign language)

The pitch session was also watched by IEEE SIGHT Chair Lwanga Herbert who joined in virtually. Lwanga then detailed the next steps for the projects and how to apply for IEEE HAC funding. Lwanga also shared some case studies and success stories from SIGHT groups in other countries. The quality and thought put into the presentations was very impressive, especially given the limited time that teams had had to develop their ideas. It is clear that the student and young professional members of IEEE in Australia are keen to use their skills for social impact, and the "hackathon" / "pitch day" format of the event enabled delegates to share their interests. I hope that these teams will take their ideas to the next stage – identifying local partners and forming a plan of action – so they can apply for recognition as Australia's first SIGHT groups.

If you want to learn about starting a SIGHT group, get more information at https://sight.ieee.org/.



Pictures - the four teams getting prizes and Matt's presentation on the second day

### Acknowledgements

Thanks to the ANZSCON steering committee, especially Chair Luke Rosenberg, and Sudipta Chakraborty who first suggested that I should facilitate a SIGHT activity at the conference. I am also grateful to the New South Wales Section for covering the cost of my travel to Adelaide.

Matthew Imhoff IEEE SIGHT Operations Committee mimhoff@ieee.org





## New and Upgraded Members.

For the period from the 1st July 2022 to the 30th September 2022.

### **New Fellows**

None

### **Life Fellows**

We have no new life fellows.

### **Life Senior Members**

We don't have any new life senior members either.

### Life Members

We have one new life member.

Lawrence K Wong

### **Senior Members**

We have eight new senior members. Dushmantha Thalakotuna has been the section secretary and is a very familiar name, though Tony Zaglas had to remind me of this. Editing these lists of name is mind-numbing,

Sarah	J	Johnson	Nikesh	Anand	Lalchandani
Ali		Mehrabi	Deepak		Mishra
Brent		Pawlik	Mukesh		Prasad
Dushmantha	Nuwan	Prasanna Thalakotuna	Wenjie		Zhang

#### Members

We have a lot more new members - 165 of them.

Yasmin Foez		Nigar Ahmed	Abdul Igbayemi	Daniel	Rasheed Akeremale
Mohammad	Raja Ismail	Al-Soeidat	Muhammad	Mubashir	Alam
Hamid		Alinejad-Rokny	Hamzeh		Aljarajreh
Reece	Douglas	Aquilina	Ann	Mary	Baby
Timothy	Andrew	Baker	Tuguldur		Batkhuu
Danial		Bavi	Aowei		Bie
Hamideh		Bour	Paul		Camillos
Fredo	Paraginog	Chavez	Yifeng		Chen
Xe	Yuin	Chong	Thai	Son	Chu
Richard		Clements	John		Cook
Thomas	William	Courtney	Thilini		Dahanayaka
Thanh	Nho	Do	Laura	Ivone	Dominguez
Stephanie		Drewe	David	John Snell	Edson
Benjamin	James	Essam	Raphael		Falque
Henry	Michael	Farrell	Paul	G	Fudge

<b>.</b>	**		<b>**</b> 1		
Vedang	Hemant	Fulambrikar	Kerl	Arnel	Galindo
Jiayao		Gao	Wade		Garin
Maowen		Geng	Ramtin		Gharleghi
Will		Gilbert	Asif		Gill
David	R	Goodenough	Jaysson	Esteban	Guerrero Orbe
Brendan		Halloran	Bin		Han
Touseef		Hayat	Michael	Edward	Hayes
Margaret	L	Head	Yuval		Hertzog
Ashraful	Hossain	Howlader	Jieji		Hua
Weidong		Huang	Ali		Husnain
Md	Tariqul	Islam	Md	Rafiqul	Islam
Amin		Jalilian	Sanjay		Jha
Yubai		Jiang	Vikas		Johri
Nanise		Kaloumaira	Alan		Kan
David	Alexander	Katzmarek	Farshid		Keivanian
Aroba		Khan	Erfan		Khordad
Ali		Khosravi	Thanh	Tung	Khuat
Stefan		Kiss	Onder	Vincent	Koc
Tin		Lai	Richard	W	Lancaster
Long		Lee	Kunming		Li
Zixi		Li	Xiaoxuan		Li
Shenghong		Li	Lixue		Liang
Yi		Liu	Jingjing		Liu
Chi		Liu	Yue		Liu
Alon		Loeffler	Michael		Loewy
		Lu	Leon		Luo
Tingyu Khayyaia	Fahad	Masood	Peter	Cluda	
Khawaja Paul				Clyde	May Manaka
	J	McMahon Mihankhah	Ifeanyichukw	u Ciliadika	Meneke Mills
Ehsan	Varea	Mihankhah	James Zacharry	Seatt Dam	
Dillip	Kumar	Mishra Mahashan Kashani	Zachary	Scott Don	Mitchell
Mohammad	Mobasher	Mobasher Kashani	•	mleshkumar	Modi
Gelareh		Mohammadi	Meisam		Mohammady
Scott	<b>.</b>	Moller	Jayden		Moore
Reese	Xavier	Mortlock	Peter	1.17	Mudie
Karan		Narula		d Kazi	Nazrul Islam
Tien Dung		Nguyen	~	uyen	Nguyen
Francis		Odoom	Cornelius	John	Paardekooper
Yige		Peng	Rizka	Widyarini	Purwanto
Guntur	Dharma	Putra	Abdul	Wahed	Qadri sayed
Chen		Qian	Haranraja		Ravindranselvi
Ariyamehr		Rezaei		rdon Tibaldi	Roberts
Paul		Rubsov	Harley		Rutherford
Ayoob		Salari	Hamidreza		Salarian
Masoud		Salehpour	Rebecca		Schacht
Mostafa	Ali	Shahin	Babar		Shahzaad
Vivek		Sharma	Ayefa		Sharmin
Abhishek		Shastri	Bara'ah	Ahmad	Shdifat
Mohamad	Arsalan	Sheikh	Ali	Hasan M	Siddiq
Mohammad I	Khubeb	Siddiqui	Sivaramakris	hnan	Sivakumar
Lizhao		Song	Hrishikesh		Srinivas
Yaroslav		Syasegov	Muddassir	Uddin	Syed
Weng	S	Tam	Yani		Theoharis
Norman		Thien	Neethu		Thomas

## New Graduate Student Members

We have 95 new graduate student members

Saroj		Adhikari	Fariha		Afsana
Moqaddaseh		Afzali Naniz	Eistiak	Occeleration	Ahamed
Guruprasad Md	V	Ajithkumar Rajasree Arafat		Ogochukwu	Akazua
Helen	Yeasir		Timothy	David	Boye Chen
		Carson	Hq		
Xiaocong		Chen	Faser		Cockburn
Benny		Dai Dulal	Yihao Drivor lo		Ding
Rabin		Dulal	Priyanka		Dutta Filin av
Elizabeth	Class Verse	Englezos	Ilia		Filipev
Amus	Chee Yuen	Goay	Siming		Gong
Ying		Guo	Mahir		Habib
Ambreen		Hanif	Yi	AC	He
Md Sanwa		Hossain	Muhammad	Atif	Imtiaz
Muhammad Ameer Hamza		Janjua		Jasleen Jasleen	
Shida		Jin	Abhasha		Joshi
Jiachen		Kang	Dhanoop		Karunakaran
Wajid	Ali	Khan	Naimat	Ullah	Khan
Hem	Rajesh	Kothari	Abdallah		Lakhdari
Long	Quang	Le	Qiyang		Lei
Yicong		Li	Xinyue		Li
Xinshu		Li	Boyu		Li
Junye		Li	Qijun		Liang
Yulin		Liao	Derick		Lima
Aleksandr		Litvinov	Zhaoqing		Liu
Jia	Chng	Loh Ire	omi Randika Pa	aranavithana I	A. Paranavithanage
Jasprabhjit		Mehami	Ja	Ba Dam	Nay
Peng		Ni	Yunyu		Ong
Rod		Parnaso	Xiaohuan		Pei
Thomas	Anthony	Perrau	Zakria		Qadir
Hasina	2	Rahman	Rujhan		Rai
Safdar		Rasool	Ilyas		Saleem
Anna		Savery	Utkarsh		Sethi
		5			

Ahasan 1	Habib MD	Shahid Anowar	Aryan		Sharma
Faizan		Shoaib	Raunak		Shrestha
Ysobel Ha	rmony Moonbean	n Flywood Sims	Yang		Song
Wafa	Ali	Soomro	Shangyi		Sun
Sara		Tayari	Akbar		Telikani
Christian	James	Troiani	Steven	James	Tuften
Farahnaz		Vahdati	Eduardo		Villasenor Alvarez
Sose	Raeinaldo	Virnandes	Xinyu		Wan
Wenbin		Wang	Ziqi		Wang
Teran		Wanniarachchi	Lai		Wei
Lihang		Wen	Yubo		Wen
Choon Jie		Wong	Yuyang		Xie
Cheng		Xingyu	Wenbo		Xu
Ruipeng		Xu	Dianer		Yu
Saidakhron	r	Yusubov	Zhen		Zhao
Weina		Zhu			

## **New Student Membership**

We have 21 new student members.

Jonathan Brian Benjamin		Barrett	Cameron	Luke	Biggs
Ducia	-	Halim	Micah	Rose	Honan
Pasan	Wasuka	Jayanetty	Cooper	James	Joyce
Wentao		Lu	Lachlan		McNeilly
Paul	William	Metcalfe	Keval	Maheshbhai	Patel
David		Patole	Hong	Cam	Phan
Dawud	Hussain	Rahmati	Hrithikraj		Selvaraj
Peter		Smith	Clare		Strik
Michael	Robert	Suzzi	Julia	Lina	Tan
Dang	Dat	Tran	Zhuowei		Wang
Fubara	George	Warmate			
New Affilia	te Members				
We have for	ur of them.				
Во		Du	Vishal	Kumar	Gupta
Basem		Suleiman	Yucheng		Zhou
New Associ	iate Members				
We have on	ly three of them				

We have only three of them.

Jesse	Nolan	Udit	Talpade
Zahir	Toufie		

Any student members who would like to be on the Student Branch Committees and any members, especially academic staff, who would like to be their mentors, please contact Arslan Kiyani <u>arslan.kiyani@mq.edu.au</u> (student activities chair) or

There are a number of members who are qualified to be senior members. If you are interested to upgrading your membership, please do not hesitate to contact me at 0414 662 766.

"Membership" for Life members is free. However, you do need to renew it annually. Renewal is simple and easy and can be done via the IEEE web site. If you have not renewed your Life Membership, please log onto IEEE website to do it.

## Submitted by Dr. Bruce Poon – e-mail <u>bruce.poon@ieee.org</u>



### https://site.ieee.org/nsw/newsletters/

Members will be notified by email when a new issue is posted on the Website. Future copies of **Circuit** will only be sent by paper mail on request.

If you require Circuit to be mailed to you in 2022 please complete the form below: Don't bother if you were already getting it by mail in 2021.

Please Detach

## Yes, I want to continue receiving future editions of *Circuit* by post

•

