Editorial:

This is the twenty-eighth newsletter I've edited. This one is being edited with the very latest stable version of Libre Office – 7.6.5.2. I downloaded 7.6.4.1 a month ago to edit the treasurer's report to head office which is a spread sheet these days - Netsuite is now a thing of the past - but it has been updated again since then.

Colin Elston lost his wife at the end of last year - she had a massive stroke a couple of days before the AGM and was promptly taken into hospital but the stroke ended up killing her a couple of days after the AGM. Colin soldiered on, but Syed has now taken over as chair - that's what vice-chairs are supposed to do.

On a more positive note  Professor Francesca Iacopi has become an IEEE Fellow, as is covered on page 2.

In the March 2020 Circuit she showed up as the chair of the newly revived Electron Devices Chapter, and my editor's note described the new committee as impressive. It would have taken a more specific comment to qualify as prophetic, but I'll grab what credit I can.

Wei Ni has also become an IEEE Fellow. He is active in the Vehicular Technology Chapter - he's its chair, but I've seen him less often.

This Circuit is late again. As usual, the message from the chair was the last item to arrive.
Chair’s Message for March 2024

With the start of 2024, IEEE New South Wales section has new committee with a focus on bringing more value to our members. You can find more details on section’s webpage:

https://r10.ieee.org/nsw/committe/

As Chair for IEEE NSW section, I welcome new committee members and officers of chapters, affinity groups and student branches. I intend to promote more technical and social activities for this year to create and provide more opportunities to our members.

As we are coming out of post-COVID phase, it is important to address the challenges we faced during the COVID period and the impacts it has had on all of us. We faced limits on physical activities and social events. Student branches were most impacted by this, as officers have graduated and there were very few students willing to act in the student branches to continue IEEE activities. Our chapter and affinity groups were also impacted, however not to same extent as the student branches. One good effect of the COVID period is that we now have more confidence in virtual events and now most events now offer virtual options.

Another strong focus for this year is to actively support hosting key conferences in NSW. In some cases, it is a long journey, and we have to look ahead for the next few years. There are only a few conferences planned for Sydney in 2024. Our members are our key strength, and we would like to get you involved to get the most out of these big events. They provides opportunities for our younger members to exercise their leadership skills. Getting engaged in an organizing committee equips our members with invaluable experience which can help to attract future conferences to Sydney. If you are bidding to host any future conference, please reach out to me and we will actively support you to host it in NSW section.

I recently attended an event on compliance, requirements, and suggested timelines for hosting conferences, which are important for hosts.

IEEE NSW Section had the honour to host IEEE President-Elect Kathleen Kramer at Sydney where she interacted with members of NSW section before travelling to Canberra for the Milestone event. It was a great opportunity for our members to meet and talk to the President-Elect and to share their thoughts. She has been presented with IEEE NSW 50th Anniversary Booklet.

IEEE Region 10 Annual meeting was held at the start of March in Kuala Lumpur, Malaysia. It was a full-on event which offered insight to some past, current, and upcoming events. Updates were given on the split of Region 10 into new two regions (Region 10 and Region 11). Lectures were
given on various aspects of conference organisation including compliance, requirements, and
timelines on hosting conferences, plans, and opportunities available with various technical commit-
tees and working groups and networking to share ideas and experiences with representatives from
other IEEE sections and IEEE Region 10 delegates.

I would like all chapters, students, and affinity groups to plan events as early as possible, advertise
them in plenty of time via vtools, and make sure that event reports get submitted through vtools.
I ask chairs of all chapters, student branches, and affinity groups to attend monthly section’s
meeting or send a representative to attend. This will allow us to promote, create, and share more
opportunities.

I am also looking forward to getting UNITE back this year - let us make it happen together. Any
ideas are welcome, please feel free to share them with me. There are several opportunities in terms
of attending IEEE R10 SYWL Congress 2024, IEEE ANZSCON 2024, Robotics competition, etc,
keep an eye on the section website and e-notices as more details become available.

I would like to acknowledge and extend my appreciation to all females in our section on Interna-
tional Women’s Day. They have always contributed to bring success to NSW section, and we are
proud of you all. I would also like to congratulate the new IEEE Fellows in NSW on their
elevations to IEEE Fellow grade.

Regards, Syed Muzahir Abbas - Chair, IEEE NSW Section
New Fellows

We have five new fellows this year.

Professor Francesca Iacopi from the University of Technology Sydney

for contributions to integration strategies of nano-materials in silicon technologies.

Prof Francesca Iacopi is with the School of Electrical and Data Engineering and ARC Centre of Excellence in Meta-optical Systems, Faculty of Engineering and IT of the University of Technology Sydney. She has over 20 years’ industrial and academic research expertise in semiconductor technologies, with 160 peer-reviewed publications and 10 granted US patents, spanning interconnects, CMOS devices and packaging. Her research focuses on the translation of basic scientific advances in nanomaterials and novel device concepts into implementable integrated technologies. She was recipient of an Australian Research Council Future Fellowship (2012), a Global Innovation Award in Washington DC (2014) and was listed among the most innovative engineers by Engineers Australia (2018).

Francesca is an IEEE EDS Distinguished Lecturer and serves regularly in technical and strategic committees for IEEE and the Materials Research Society. She has re-established the EDS Chapter in NSW and is an Elected Member to the IEEE EDS Board of Governors (2021, 2024). She serves in the Editorial Advisory Board the IEEE The Institute magazine and is also the inaugural Editor-in-Chief of the IEEE Trans. on Materials for Electron Devices (IEEE T-MAT). In addition, she serves on the Board of the NSW Semiconductor Sector Service Bureau (S3B) and in the National Committee for Materials Science and Engineering of the Australian Academy of Science.

Editor's note. As I seem to have said before, impressive stuff.
Professor Tao Gu from Macquarie University

for contributions to mobile and wireless sensing systems

He obtained his Ph.D. in Computer Science from the National University of Singapore, an M.Sc. in Electrical and Electronic Engineering from the Nanyang Technological University, and a B.Eng. in Automatic Control from the Huazhong University of Science and Technology.

The long-term goal of his research aims to discover innovative ways of sensing and connecting the physical world, and embedding AI intelligence to facilitate the building of new applications.

His current research interests include the internet of things, ubiquitous computing, mobile computing, embedded AI, wireless sensor networks, and big data analytics. He usually publishes his work in journals and conferences, including, MobiCom, MobiSys, SenSys, UbiComp, IPSN and INFOCOM.

Adjunct Professor Wei Ni at University of Technology Sydney

for contributions to resource allocation and cooperation in unmanned aerial vehicle networks

Dr. Wei Ni is a Conjoint Professor at the School of Computer Science and Engineering, at the University of New South Wales (UNSW), and a Principal Research Scientist at the Information Privacy and Security Group of CSIRO. He has led research on privacy-preserving AI/ML and data analytics, and has extensive experience and a track record in developing applied AI/ML, data privacy, graph learning and signal processing solutions.

Wei is also an Adjunct Professor at the Discipline of Networking and Cybersecurity, the University of Technology Sydney (UTS), and an Honorary Professor at the Department of Computing, Macquarie University (MQU). He also serves as an Editor of Research Direction: Cyber-Physical Systems from Cambridge University Press since 2022, Editor of IEEE Transactions on Vehicular Technology since 2021, and Editor of IEEE Transactions on Wireless Communications since 2018.

Wei has published seven book chapters, over 250 refereed journal papers (primarily in high-impact venues), and 100 refereed conference papers. He has contributed significantly to the industry with successful launches of an Alcatel-Lucent internal venture and two product lines, 25 patents, and ten accepted IEEE standard proposals. His patents are referenced by Apple, Intel, Ericsson, Samsung, Nokia, Qualcomm, Blackberry, and Huawei, with a substantial impact on industrial roadmaps.
Professor Sri Parameswaran at the University of New South Wales

for contributions to embedded computer circuits and systems

Sri Parameswaran is a Professor in the School of Computer Science and Engineering at the University of New South Wales. He was an acting Head of School at the University of New South Wales from 2019 to 2020. He served as the Program Director for Computer Engineering. His research interests are in system level synthesis, low power systems, high level systems and networks on chips. He also served as the Editor in Chief of the IEEE Embedded Systems Letters from 2016 to 2019. He serves or has served on the editorial boards of IEEE Transactions on Computer Aided Design, ACM Transactions on Embedded Computing Systems, the EURASIP Journal on Embedded Systems and the Design Automation of Embedded Systems. He has served on the program committees of the Design Automation Conference (DAC), Design and Test in Europe (DATE), the International Conference on Computer Aided Design (ICCAD), the International Conference on Hardware/Software Code-sign and System Synthesis (CODES-ISSS), and the International Conference on Compilers, Architectures and Synthesis for Embedded Systems (CASES). Sri Parameswaran received his B.Eng. Degree from Monash University and his Ph.D. from The University of Queensland.

Professor Salah Sukkarieh at the University of Sydney

for contributions to robotic navigation in aerial and agricultural applications

Salah Sukkarieh is the Professor of Robotics and Intelligent Systems at the University of Sydney. He was awarded the NSW Science and Engineering Award for Excellence in Engineering and Information and Communications Technologies in 2014; was listed as one of Australia’s Most Innovative Engineers by Engineers Australia 2016; in 2017 got the CSIRO Eureka Prize for Leadership in Innovation and Science, and in 2019 was nominated as one of the 2019 NSW Australian of the Year, and was recognised by Engineers Australia’s as one of their Centenary Heroes. Salah is a Fellow of Australian Academy of Technological Sciences and Engineering (ATSE) and IEEE Senior Member. He has over 500 academic and industry publications in robotics and intelligent systems. From 2019-2022 he was the CEO of Agerris, an Agtech startup company spun out of the ACFR, where he led the manufacturing and commercialisation of on-farm robotic solutions to improve agricultural productivity and environmental sustainability. He was the Director Research and Innovation at the Australian Centre for Field Robotics from 2007-2018, where he led the strategic research and industry engagement program in the world's largest field robotics institute. Salah has received over $50 million in university-industry-government research grants in the last ten years, and is recognised as an international expert in the research, development and commercialisation of field robotic systems. He has led a number of robotics and intelligent systems R&D projects in logistics (Patrick Stevedores), commercial aviation (Qantas), aerospace (various national and international agencies), education (Australian Government), environment monitoring (Australian Government), agriculture (horticulture, grains, meat and livestock) and mining (Rio Tinto).
Upcoming R10 Conferences

2024 IEEE R10 SYWL Congress
2024 IEEE Region 10 Student-Young Professional-Women in Engineering-Life Member Congress (SYWLC)

is the biennial gathering of volunteer leaders from across the Region, to network, learn and collectively shape the future of IEEE.
IEEE R10 HUMANITARIAN TECHNOLOGY CONFERENCE
1st – 3rd OCT 2024
SUSTAINABLE TECHNOLOGIES SUPPORTING ENVIRONMENT, SOCIAL, AND GOVERNANCE (ESG)

An elite yearly conference spanning several disciplines, IEEE R10 HTC will bring together experts in technology, engineering, science, and finance as well as representatives from NGOs, governments, academia, and industries. The conference will encourage debates and research in the fields of electrical, communication, computing, security, and disaster relief in order to share findings from recent technological developments that can aid the poor and needy. Plenary sessions, keynote talks from renowned academics, tutorials and workshops led by subject-matter experts, presentations of research papers, events for women in engineering and, young professionals, a session on entrepreneurship, and innovation, industry exhibits and booths, and more will be featured.

IEEE R10 HTC 2024, which is organized and hosted by IEEE Kuala Lumpur Subsection, will be held in Kuala Lumpur, 1st – 3rd October 2024. The theme of the conference, “Sustainable Technologies Supporting Environment, Social and Governance (ESG)” is to draw special attention to the societal expectation on humanitarian technologies’ ability to provide practical and lasting solutions.

During and after the COVID-19 pandemic, we saw technologies previously precluded were suddenly embraced by majority of the people such as cashless transaction is utilized everywhere and many mobile apps mushrooming providing a variety of services. The impact of these technologies to the environment, social, and governance are tremendous. Thus, this conference will present studies on the sustainable technologies that are able to balance the need for environment, social, and governance.

All the accepted and presented papers will be eligible for submission to IEEE Xplore for publication in the form of e-proceedings which is indexed to the world’s leading Abstracting & Indexing (A&I) databases, including ISI / SCOPUS / DBLP / EI-Compendex / Google Scholar.

**Important Dates:**

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<th>Event</th>
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<tr>
<td>Full Paper Submission Deadline</td>
<td>1st May 2024</td>
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<tr>
<td>Tutorial/Workshop/ Special Session Proposal Submission Deadline</td>
<td>1st April 2024</td>
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<td>Notification of Tutorial/Workshop/Special Session Proposal Acceptance</td>
<td>15th April 2024</td>
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<tr>
<td>Workshop/Special Session Paper Submission Deadline</td>
<td>1st May 2024</td>
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<td>Notification of Acceptance</td>
<td>3rd July 2024</td>
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<td>Camera Ready Submission Deadline</td>
<td>7th August 2024</td>
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<td>Early Bird Registration Deadline</td>
<td>20th July 2024</td>
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**Topics covered but not limited to**

- Industry 4.0
- Agriculture
- Technologies in Education
- Technologies, Innovations, and Entrepreneurship
- Security and Surveillance
- Machine Learning
- Privacy, Security, and Human Rights
- Data Science and Engineering
- Genomics and Bioinformatics
- Green, Smart Materials, and Composites for Sustainable Habitat
- Environment and Sustainability
- Smart Technologies and IOT
- Smart City and Smart Village
- Energy and Renewable Energy
- Green Technology

CONTACT US:

- [https://ieeemy.org/htc2024/](https://ieeemy.org/htc2024/)
- ieeer10.htc2024@gmail.com
IEEE Region 10 Conference 2024 (TENCON 2024)
Artificial Intelligence and Deep Learning Technologies for a Sustainable Future
1-4 December 2024 | Marina Bay Sands | Singapore

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CALL FOR PAPERS

TENCON is a premier international technical conference of IEEE Region 10, which comprises 60 Sections, 6 Councils and 42 Sub-sections in the Asia Pacific regions. The theme for TENCON 2024 is Artificial Intelligence and Deep Learning Technologies for a Sustainable Future and it will be held in Singapore from December 1 – 4, 2024.

This conference is expected to bring together researchers, educators, students, practitioners, technocrats and policymakers from across academia, government, industry and non-governmental organizations to discuss, share and promote current works and recent accomplishments across all aspects of electrical, electronics and computer engineering and information technology. Distinguished speakers will be invited to deliver keynote speeches and invited talks on trends and significant advances in the emerging technologies.

The online electronic paper submission will open from 1 March 2024. The scope of conference papers and exhibits include but not limited to the following areas:

- Artificial Intelligence and Machine Learning
- Data Analytics and Big Data
- Robotics, Control, Instrumentation and Automation
- Signal Processing and Image Recognition
- Computational Intelligence
- Network and Cyber-Security
- Communications and Networks
- RF/Millimeter-wave Circuits and Systems
- Antennas, Propagation and Computational EM
- Analog and Mixed Signal ICs
- Optical Communications and Sensors
- Photonic Technologies
- Internet of Things/RFIDs Sensors
- Power Electronics
- Power Generation, Transmission and Distribution
- Electrical Motors and Drives
- Renewable Energy Sources and Technology
- Electronic Devices and Materials Processing
- Nano-electronics
- 3D Printing
- Quantum Technologies
- Education in Engineering and Technology
- Biomedical Engineering and Healthcare Technologies
- Sustainable Building and Environment Technologies

TENCON 2024 will feature both invited and contributed papers. The best papers will be selected from the contributed papers for awards. The presented papers will be submitted to IEEE Xplore which is indexed by major databases. Prospective authors are invited to submit full papers that are three to four pages, with double column IEEE Conference format.

Important Dates

- Paper Submission Deadline: 30 May 2024
- Notice of Acceptance: 1 August 2024
- Final Manuscripts Submission: 10 September 2024

Organised by:
IEEE Singapore Section
IEEE TENCON 2024 Secretariat c/o acedaytons direct (intl) pte ltd
2 Leng Kee Road #04-01 Thye Hong Centre Singapore 159886
Tel: (65) 6579 5260 / 6579 5261 / email: secretariat@tencon2024.org

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If you are a 3rd, 4th or a post-grad student in 2024 and have never been an IEEE member**

The IEEE NSW Section will sponsor your student membership fee!

Instructions:

1. Go to www.ieee.org/join and register as Student Member.

2. Type in all your details. On the check-out process, press ‘Print & Mail/Fax order’ instead of ‘Proceed to checkout’.

From the browser menu, print to PDF.

Ensure your postal address and contact details will be valid for the next 12 months or more.

Instead of sending the form to IEEE HQ USA, please forward a PDF copy of this application with Member/Customer number under “Order Information” (Name of the File: your name-IEEE NSW student membership offer.pdf) and a copy of your current student card (Name of the File: your name.pdf)

to: Dr Bruce Poon ----- IEEE NSW Membership Development Chair - e-mail: bruce.poon@ieee.org

and cc. to Dushmantha Thalakotuna ----- IEEE NSW Student Activities Chair - e-mail: dushmantha.thalakotuna@uts.edu.au

If you are students of the following universities, please cc. a copy of your application to the student branch (SB) chairs / mentor:

1. Charles Sturt University Mentor : Dr David Tien (dtien@csu.edu.au)
2. Macquarie University SB Chair / Mentor : Professor Subhas Mukhopadhyay (subhas.mukhopadhyay@mq.edu.au)
3. University of New South Wales SB Chair / Mentor : TBA
4. University of Sydney Mentor : Professor Jinman Kim (jinman.kim@sydney.edu.au)
5. University of Technology Sydney Mentor : Dr Dushmantha Thalakotuna (dushmantha.thalakotuna@uts.edu.au)
6. University of Wollongong Mentor : Dr Sasha Nikolic (sasha@uow.edu.au)
7. Western Sydney University Mentor : Professor Ranjith Liyanapathirana (R.Liyanapathirana@westernsydney.edu.au)

* The number of free student memberships is limited and will be awarded on a first come first serve basis. This offer excludes membership to individual IEEE societies which may be purchased separately. This offer is available only to students located in New South Wales. The free student membership offer covers the first year of membership only. Offer not available to current or past IEEE members/student members.

Deadline for submission is 4:00pm on the 30th of April 2024 or when quota is filled (whichever comes first) and all applications will be processed from the beginning of April 2024.

** Please attach a copy of your current student card.
New and Upgraded Members.

For the period from the 1st October 2023 to the 29th February 2024.

New Fellows

They have the own pages - 2 to 4 - earlier in the newsletter. Francesa Iacopi and Wei Ni are active in the section.

Prof. Tao Gu
Prof. Wei Ni
Prof. Salah Sukkarieh

Prof. Francesca Iacopi
Prof. Sri Parameswaran

Life Fellows

We have two new life fellows.

Gernot Heiser Eduardo M Nebot

Life Senior Members

We have eight new life senior members.

Robert A Barr Stephen G Joyce
Joseph Kurusingal Ranjith Liyanapathirana
Pankaj R Mehta Michael P Motion-Wise
Philip O Ogunbona Lesley P Sabel

Life Members

We have twenty-four new life members.

Kulendran Anaimugan Victor H Aung
Keith J Bengston Richard J Bloor
David J Crawford William F Diggins
Barry F Finlay Abdullatif M Glass
Michael S Homsey Bruce D Howard
Jayantha Katupitiya Andrew K Kelly
Robert Michael Phillip H Myint
David Neville Cheung H Nin
Douglas E O'Hara Nalin C Pahalawaththa
Paul P Parnell John B Rose
Gary Shipton Clifford J Stephenson
S Thiruloganathan Kostas I Tsampazis
Senior Members

We have thirteen new senior members.

Payam Alexander Can Ding
Bogdan Gabrys Amirhossein Gandomi
Li Li Tim Milledge
Quynh Ngo Xueping Peng
Mukesh Prasad Dipali R. Shende
Brett Wilson Xin Yuan
Yi Zhang

Members

We have a lot more new members - 64 of them.

Sohail Ahmed Kashan Ahmed
Richard Pickles Aked Pasindu Dissan Aluthwala
David Peter Boland Wayne Brookes
Xin Cao Shan Chen
Andy Cheung Kosta Dakic
Sameer Vijay Dongare Dragan David Durakovic
Stuart Effert Yimeng Feng
Bradley J Gay Martin Guest
Amir Hakemi Changyan He
Michael James Horry Nicholas Hoyle
Anthony James Humayun Kabir
Robert Katz Kaveh Khalilpour
Muhammad Arif Khan Kunming Li
Yuhong Liu Guanfeng Liu
Mark Lynch Siqi Ma
Philip Madigan Darren L Maybour
Damian Gerard McGillin Joe Messiter
Shekhar Mondal Ganesh Nagendra
Simon Timothy O'Callaghan Christopher Orfanos
James Richard Pinnock Laura Anne Poole-Warren
Anisur Rahman Simit Raval
David Reilly Uwe Roehm
Senaka Chandranath Samarasekera Masoud Sarjami
Mihail Sestakov Tharmakulasingam Sirojan
Alan Christy Soewargo Ning Song
Shari Southerg Guoxin Su
Victor Tam Balavelan Thanigaivelan
Anwaar Ulhaq Shaun van Staden
Stephen Vaughan Sivaganam Vijiharan
Yiduo Wang Christoph Wegener
Yixuan Xie Chentao Yue
Litianyi Zhang Boyu Zhang
## New Graduate Student Members

We have 104 new graduate student members:

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<td>Jinjing</td>
<td>Zhao</td>
<td>Shuai</td>
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**New Student Members**

We have 40 new student members.

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<tr>
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<td>Arvin</td>
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<td>Chenxi</td>
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<tr>
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<td>Hoque</td>
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<td>Andrew</td>
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<td>Ye</td>
<td>Tiddy</td>
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<tr>
<td>Frank</td>
<td>Zhang</td>
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**New Affiliate Members**

We have four of them.

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Karlos</td>
<td>Ishac</td>
<td>Huiwen</td>
</tr>
<tr>
<td>Trent</td>
<td>Whitbourn</td>
<td>Inez</td>
</tr>
</tbody>
</table>

**New Associate Members**

We haven't got any of them.
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 arslan.kiyani@mq.edu.au (student activities chair) or bruce.poon@ieee.org (0414 662 766) to register your interest.

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 Bruce Poon at 0414 662 766. "Membership" for Life members are 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 bruce.poon@ieee.org
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