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EDUCATION

- 2001-2004** **Ph. D.** in Electrical Engineering
North Carolina State University (NCSU), Raleigh, NC USA.
- 1999-2001** **M. S.** in Electrical and Computer Engineering,
University of FL, Gainesville, FL USA.
- 1993-1997** **B. S.** in Electronics Engineering
Ankara University, Ankara, Turkey

PROFESSIONAL EXPERIENCE

- Jan. 2016-** **Associate Professor, Graduate Coordinator**, Monash University
- Jan. 2014-2019** **Australian Research Council Future Fellow**
- Jan. 2015- 2016** **Deputy Head**, Department of Electrical and Computer Systems Engineering,
Monash University
- 2014-2021** **Director of Graduate Research Training**, Monash University
- July 2011-2015** **Senior Lecturer**, Monash University, Victoria, Australia.
- 2009-July 2011** **Senior Lecturer**, University of Newcastle, Callaghan, NSW Australia.
- 2005-2009** **Lecturer** (Equivalent to **assistant professor**), University of Newcastle,
Callaghan, NSW Australia.
- 2004-2005** **Post-Doctoral Researcher**, University of California at Santa Cruz
Santa Cruz, CA USA.
- 2001-2004** **Research Assistant**, North Carolina State University, Raleigh, NC USA.
- 1998-1999** **Satellite Communication Engineer**, Ankara, Turkey.

PROFESSIONAL INTERESTS

- Wearable Devices, Human Machine Interfaces (HMIs)
- IoT sensors, Sensors electronics, Wireless sensors, Energy harvesting electronics
- Wearable sensors, Bioelectronics, Wireless biotelemetry.
- Cuffless Blood Pressure Device Design
- Bio-MEMs, MEMs sensors
- Emerging technologies in wireless communications.
- Low-power IC, Analog/digital mixed signal VLSI design for wireless, biomedical, and RF applications.

HONORS&AWARDS

- One of Technical-Committee Co-chairs receiving the Most Active TC Award in HMS, IEEE SMCS Society for TC on “Interactive and Wearable Computing and Device”.
- The 2014 Microwave Magazine Best Paper Award of the IEEE Microwave Theory and Techniques Society (MTT-S), 2014.
- Australian Research Council Future Fellowship, 2014.
- Best performing associate editor for *IEEE Sensors Journal* in 2013, 2014 and 2015.
- Member of Monash Researcher Accelerator (MRA) program, 2013-2014.
- Award for Research Excellence in Faculty of Engineering and Built Environment, University of Newcastle, 2010.
- IEEE Senior Member, 2010.
- Paper Finalist (with student Ho Chee Keong), 31st International Conference of the IEEE Engineering in Medicine and Biology Society, 2009.
- NASA (National Aeronautics and Space Administration) group achievement award for developing SOI transceiver in support of NASA planetary robotic missions, August 2007.

COURSES TAUGHT

- ECE3161 Analog Electronics, 2019, 2020, 2021, 2022.
- Advanced Electronics Design, RF Electronics (Monash), 2014-2022
- Electrical Energy Systems (2012, 2013, Monash).
- Systems Engineering and Reliability Analysis (2012, 2013, Monash)
- ECE2021 Electromagnetism (2011, 2012, 2013, Monash)
- ELEC2320 Electric Circuits (Semester 1, 2010, Newcastle).
- ELEC4210-Electronics Design (2005 -2011)(Developed course)(Taught more than 10 times) As a part of the University of Newcastle program, I have been teaching this course in Singapore as well.
- ELEC3240 Electronics (2009, PSB).
- ELEC4840A/B Final Year Projects Semester 1&2 (2006, 2007, 2008, Newcastle), (2009 Singapore), (2010, Singapore).
- Computer Engineering-I (2005, Newcastle).

PROFESSIONAL MEMBERSHIPS

- Senior Member of IEEE
- IEEE Sensors Journal Member
- IEEE Solid-State Circuit Society member
- IEEE Engineering in Medicine and Biology Society
- IEEE Circuits and Systems Society

PROFESSIONAL ACTIVITIES

- **An Editor-in-Chief-Sensors**
- **Topical Editor** (2015-), IEEE Sensors Journal
- **Associate Editor** (2020-), IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology

- **Associate Editor (2012-2015)**, IEEE Sensors Journal
- **Associate Member of the IEEE Engineering in Medicine and Biology (EMB) Society on Wearable Biomedical Sensors and Systems Technical Committee (2015-)**.
- **Technical Committee Co-Chair** of Interactive and Wearable Computing and Devices, IEEE Systems, Man, and Cybernetics Society.
- **The lead guest editor** for IEEE Journal of Biomedical and Health Informatics in 2015.
- **Guest editor for Information Fusion**, special issue: Advances in Multi-Sensor Fusion for Body Sensor Networks, 2019.
- **Several Special Issue organizer** with IEEE Sensors Journal
- **Several Special Issue Organizer** with Sensors
- **Member of the Editorial Board**, Inter. Journal of Medical Engineering and Informatics.
- **Guest Editor (2013)**, Mobile Networks and Applications (Springer), Special Issue on “Wireless Technology for Pervasive Healthcare”.
- **Associate Editor**, Recent Patents on Electrical Engineering (2011-2014)
- **Organiser**, Workshop on Implantable wireless sensors, MIT, Cambridge USA, June 2015.
- **Associate editor**, Conference of IEEE Eng. in Medicine and Biology Society, 2014
- **A member of organizing committee**: Special session on Wireless Capsule Endoscopy at the IEEE EMBC, Chicago, USA, August 2014.
- **Member of organizing committee**: Emerging BAN technologies (IEEE ISCIT2012).
- **One of Organizers**, Workshop on Implantable wireless sensors, MIT, Cambridge USA.
- **Technical Program Committee Chair** for BodyNets, the 9th international conference on body area networks conference, London, 2014.
- **A technical committee member** of MEMS and Nanotechnology for the IEEE IES (Industrial Electronics Society), 2012- now.
- **Program/Technical Committee Member**:
 - BodyNets 2015, IEEE WPMC 2014.
 - The 2nd IEEE International Workshop on Emerging BAN Technologies (IEEE BANTECH 2014).
 - IEEE ICUWB2013, IEEE ICUWB2014, ICUWB 2015.
 - IEEE ISCIT2012, IEEE TENCON (2012)
 - International Conference on Advances in Computing, Communications and Informatics (ICACCI-2012 and 2013),
 - IEEE 1st Symposium on Wireless Systems (IDAACS- SWS, 2012),
 - First International Workshop on Wireless Mesh Networking of Human and Livestock Healthcare (2012), Smart Materials, Nano- and Micro-Technology Systems (2008),
 - IEEE ICCCN (2008,2009).
- **Session Chair**, IEEE ICUWB 2013, IEEE VTC Melbourne (Conference), 2006.
- **Reviewer of a number of IEEE and European sensor and microelectronic journals (10 journal articles and 10 conference articles per year).**
- **Reviewer** for Australian Research Council grants and for some international grants e.g. USA, Ireland, Canada, Netherlands and Switzerland.

CURRENT/COMPLETED GRADUATE STUDENTS/SUPERVISIONS

- Fatima Heydari: Wearable Blood Pressure Measurement
- Adikari Rathnayaka: Contact Tracing with Wearables
- Kareeb Hasan, Radar Sensing and IoT
- Neil Tom, Wearable radar
- Weiqiao Han : Radar Sensing and Human-Machine Interfaces
- Muhammad Arslan Ali : Wireless Capsule, Antenna Design
- Hongqiang Xu : Machine Learning for Vital Signs
- Maggie Gendy : Indoor Contact Tracing with IoT Technology

Completed:

- Melika Pourebrahim, Wearable Radar and Blood Pressure Monitoring
- Chunkai Qiu : Self-powered IoT HMIs with Triboelectric Sensors
- Fahad Alsunaydih, Motion Control and Tracking of Wireless Capsule Devices
- David Vera Anaya : Wearable Triboelectric HMIs
- Abdulla Mamun : Indoor localisation with IoT platforms
- Fan Wu, IoT Devices and Applications
- Taiyang Wu, Wearable and Implantable Sensor Systems with Energy Harvesting for IoT-connected Healthcare Applications
- Shamsul Arefin, MEMS Multisensor Microsystem with Integrated Interface Circuits for Wireless Capsule and Biomedical Applications, 2016 (the 2016 Lampard prize in the department of Electrical and Computer Systems Engineering, Monash University, Best thesis)
- Dilpreet Buxi, Sensing Technologies for Ambulatory Blood Pressure Monitoring using Pulse Transit Time (Main Supervisor), 2016
- Kasun Maduranga Thotahewa, Ultra Wide Band (UWB) sensor design and channel modeling for on-body and in-body communication, (Main Supervisor), May 2014.(the 2014 Lampard prize in the department of Electrical and Computer Systems Engineering, Monash University-Best Thesis).
- Ali Mohammadi (Main Supervisor)- High Precision MEMS Displacement Sensors, 2014.(the postgraduate research prize from the University of Newcastle in 2013)
- Michael Ho, Ultra Wideband Design Techniques for Wireless Medical Monitoring, (Principal Supervisor),2011.
- Anthony Laskovski, Implantable Microelectronics for Biological Signals (Principal Supervisor), 2011.

GRANTS**External Competitive Grants:**

- M. Majumder, *et al.*, Integrated Functional Printing Facility for Advanced Material Technologies., **Australian Research Council (ARC) Linkage Infrastructure, Equipment and Facilities (LIEF)**, 1/01/20 → 31/12/20, \$605,000.
- **M.R. Yuce**, J-M. Redoute, K. Joe, M. Hebblewhite, Wearable Device Design with Continuous Cuff-less Blood Pressure Measurement, **ARC Linkage Project**, 2017-2020, \$435,000.
- **M. R. Yuce**, J-M, Redoute, J. Keith, M. Hebblewhite, "Connected Health," Vic. Government, Department of Economic Development, Jobs, Transport and Resources, 2017-2018, \$280,000.
- Dr. T. Alan, Dr. J-M. Redoute, **A/Prof. M. R. Yuce**, Low Observable Platform Detection (LOPD), Department of Defence Science and Technology (COMM) , 2018, \$185,00
- **M. R. Yuce**, "Autonomous body sensors in humans," **ARC Future Fellowships**, 2014-2018, \$748,320
- **M. R. Yuce**, " New Approaches for Wireless Implantable Biomedical Devices," 2007-2010, **Australian Research Council (ARC)**, Discovery Grant, \$183,000.
- R. Moheimani & **M. R. Yuce**, "Robust Control of Electrostatic Microactuators," 2007-2011, **Australian Research Council**, Discovery Grant, \$870,000.

University Grants:

- **M. R. Yuce**, "Monash Researcher Accelerator Grant (MRA)" 2013-2014, \$77,000.
- **D. Shmilovitz, M. Yuce**, Energy harvesting and supply for sensors, **AFTAM (Monash-Tel Aviv collaboration)**, 2015, 12,000.

- D. Li, W. Shen, **M. Yuce**, B. Wang, S. Wan, Development of graphene gels for energy and biomedical applications, **Monash IDR Major Grant**, 2014, 240k.
- **M. R. Yuce**, “Development of a high resolution electronic pill for medical diagnosis,” Engineering Faculty Research Office, **Monash University**, 2012, \$24,400.
- **M. R. Yuce** and Eugene Nalivaiko, “Wireless Data Detection and Power Delivery Methods for Deeply Implanted/Inserted Biomedical Devices,” **University of Newcastle**, 2011, \$ 25000.
- J. Khan & **M. R. Yuce**, “Underwater Communication Architecture,” 2007-2010, **ATSA Defense Services Pty Ltd**, Scholarship, \$105600.
- **M.R. Yuce**, Travel Grant, **University of Newcastle**, 2007, \$1700.
- J. Khan, **M. R. Yuce**, “Power Optimisation Techniques for Wireless Sensor Networks,” **University of Newcastle**, 2006, Project - Pilot Grant, \$10,000
- **M. R. Yuce**, Travel Grant, **University of Newcastle**, 2006, \$1500.
- **M. R. Yuce**, “Low-Power Wireless Communication System Designs for Biomedical Devices,” **University of Newcastle**, Project - Early Career Researcher Grant, \$15,000.

Keynote/Invited Talks:

- **Cuffless Blood Pressure Monitoring using Wearable Body Sensors, Keynote Speaker**, 16th International Conference on Body Area Networks: Smart IoT and big data for intelligent health management 2021.
- **Non-contact Radar Sensors, Invited Talk**, the 2021 Asia Pacific Microwave Conference (APMC 2021).
- **Wearable IoT Sensors Design**, Invited speaker, the Emerging Sensing Technologies Summit, Melbourne, 2016
- **Low power electronics design and energy harvesting techniques for the Internet of Things (IoT)**, Workshop: Next-Generation Wireless Communication Systems and Networks, Newcastle Australia, 2014.
- **Wireless body sensors: design and implementation**, one of invited speeches at IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio 2013), Singapore, December 2013.
- **Electronics Design for M2M Communications**, the 11 th Annual, National SCADA Conference, Wednesday 30 th May, Melbourne 2012.
- **Implantable and wearable bioelectronics systems**. Technical Seminar, Institute of Microelectronics, Singapore, 12 August, 2009.
- **Implantable bioelectronics systems: can we use wideband technology?** Technical Seminar, organized by IEEE MTT/AP Chapter & Institute for Infocomm Research, Singapore, July 16, 2009.
- **Wireless technologies for wearable and implantable body area networks**, Technical Seminar, IEEE MTT/AP Chapter & Institute for Infocomm Research, Singapore, July 9, 2009.
- **“Frequency Bands and Wireless Technologies for Wearable and Implantable Wireless Body Area Networks”** 2nd Annual Unither Nanomedical & Telemedical Technology Conference, Quebec, Canada, February 2009.
- **“A Wireless Body Sensor Network System for Medical Monitoring”** University of California, Santa Cruz, USA, October 2006.

Contributions outside academia:

P. Lal Das, M. Lukac, SC Beisswenger, MR Yuce, and S. Mangalam, "Internet of things : the new government to business platform - a review of opportunities, practices, and challenges" Washington, D.C. : World Bank Group.
<http://documents.worldbank.org/curated/en/610081509689089303/>.

PUBLICATIONS:

Books:

- [1]. S. H. Daneshvar, **M. R. Yuce** J-M Redouté, "Design of Miniaturized Variable-Capacitance Electrostatic Energy Harvesters," ISBN 978-3-030-90251-3 Springer, Cham,2022.
- [2]. Khan, JY & **Yuce, MR**, 'Internet of Things (IoT): Systems and Applications', Pan Stanford, 2019
- [3]. K. M. S. Thotahewa, J.-M. Redoute, and **M. R. Yuce**, Ultra Wideband Wireless Body Area Networks – Springer, May 2014.
- [4]. **M. R. Yuce (ed)**, *Ultra-Wideband and 60 GHz Communications for Biomedical Applications*, Springer, ISBN 978-1-4614-8895-8, October 2013.
- [5]. **M. R. Yuce** and J. Khan, *Wireless Body Area Networks: Technology, implementation and Applications*, Pan Stanford Publishing, ISBN 978-981-431-6712, December 2011.

Book Chapters:

- [1] Malikeh P Ebrahim, Neil Tom, Duygu Nazan Gençoğlan, Şule Çolak, Mehmet R Yuce, Radar and Non-Contact Sensing, Elsevier, Encyclopedia of Sensors and Biosensors, 2022.
- [2] F. N. Alsunaydih, M.A. Ali, **M.R. Yuce**, Wireless Capsule Design, and its Locomotion and Navigation within the Body, Handbook of Biochips, M. Sawan (Ed.), Springer, 2020.
- [3] Wu, T, Redouté, JM & Yuce, M 2019, 'A wearable, low-power, real-time ECG monitor for smart t-shirt and IoT healthcare applications', *Internet of Things*, pp. 165-173.
- [4] Wu, F, Rüdiger, C, Redouté, JM & Rasit Yuce, M 2019, 'A wearable multi-sensor IoT network system for environmental monitoring', *Internet of Things*, pp. 29-38.
- [5] Y. Zhu, S. O. R. Moheimani, M. R. Yuce, A. Bazaeei, Control Issues of MEMS Nanopositioning Devices (Book Chapter) Nanopositioning Technologies: Fundamentals and Applications, Springer, 2016.
- [6] Md. S. Arefin, J.-M. Redoute, and **M. R. Yuce**, Wireless biosensors for POC medical applications, in Book: Medical Biosensors for Point of Care (POC) Applications Woodhead Publishing, Elsevier, 2016.
- [7] **M. R. Yuce** and J.-M Redoute, Implanted wireless biotelemetry," accepted for *Implantable Bioelectronics - Devices, Materials and Applications*, E. Katz (Ed.), Wiley-VCH, March 2014.
- [8] K. M. S. Thotahewa, A.I. AL-Kalbani, J.-M. Redoute, and **M. R. Yuce**, Electromagnetic effects of wireless transmission for neural implants, *Neural Computation, Neural Devices, and Neural Prosthesis*, Springer, New York, 2014.
- [9] K. M. S. Thotahewa, J.-M. Redoute, and **M. R. Yuce**, Implementation of Ultra-Wideband (UWB) Sensor Nodes for WBAN applications, *Ultra-Wideband and 60 GHz Communications for Biomedical Applications*, Springer, 2013.
- [10] K. M. S. Thotahewa, J.-M. Redoute, and **M. R. Yuce**, Medium Access Control (MAC) Protocols for Ultra-Wideband (UWB) based Wireless Body Area Networks (WBAN), *Ultra-Wideband and 60 GHz Communications for Biomedical Applications*, Springer, 2013.

- [11] **M. R. Yuce**, "Collective sensing for Healthcare," Book: *Autonomous Sensor Networks: Collective Sensing Strategies for Analytical Purposes*, Springer, January 2013, ISBN 978-3-642-34647-7.
- [12] A. N. Laskovski and **M. R. Yuce**. Power Amplifiers for Electronic Bio-Implants. *Biomedical Engineering, Trends in Electronics, Communications and Software*, Book edited by: Anthony N. Laskovski, ISBN: 978-953-307-475-7, Publisher: InTech, Publishing date: January 2011.
- [13] **M. R. Yuce** and J. Khan, Introduction to Wireless Body Area Networks, *Wireless Body Area Networks: Technology, implementation and Applications*, 2011.
- [14] **M. R. Yuce**, Hardware Development and Systems for Wireless body Area Networks, *Wireless Body Area Networks: Technology, implementation and Applications*, Pan Stanford Publishing, in 2011.
- [15] **M. R. Yuce** and Ho Chee Keong, Ultra Wideband for Wireless Body Area Networks, *Wireless Body Area Networks: Technology, implementation and Applications*, Pan Stanford Publishing, 2011.
- [16] **M. R. Yuce**, Wireless Technologies: Potential Use in Emergencies and Disaster, book chapter in *Telemedicine for Trauma and Disaster Management* (Ed. Prof. Dr. Rifat Latifi). Artech House Publishers, 2010.
- [17] V. Chenniapan, S. O. R. Moheimani, and **M. R. Yuce**. A pendulum-like structure for design of oscillators. In S. Teo, L. H. Li, and B. Tarik, editors, *NEMS/MEMS Technology and Devices*, volume 74 of *Advanced Materials Research*, pages 207–210. Trans Tech Publications, 2009.
- [18] J. Y. Khan and **M. R. Yuce**, Wireless Body Area Network (WBAN) for medical applications, in *New Developments in Biomedical Engineering*, published by IN-TECH, ISBN 978-953-7619-57-2, pp. 591-627, published January 2010.
- [19] **M. R. Yuce**, T. Dissanayake, and Ho Chee Keong, Wideband technology for medical detection and monitoring, Book: *Recent Advances in Biomedical Engineering*, IN-TECH, ISBN 978-953-307-004-9, pp. 335-360, published October 2009.
- [20] A. Laskovski, T. Dissanayake and **M. R. Yuce**, Wireless power technology for biomedical implants, *Biomedical Engineering*, by IN-TECH, ISBN 978-953-307-013-1, pp. 119-132, published October 2009.

Journals:

- [1]. S. H. Daneshvar, M. Maymandi-Nejad, M. R. Yuce and J. -M. Redouté, "A Variable-Capacitance Energy Harvester With Miniaturized Inductor Targeting Implantable Devices," in *IEEE Transactions on Industrial Electronics*, vol. 69, no. 1, pp. 475-484, Jan. 2022.
- [2]. Xu, H.; Ebrahim, M.P.; Hasan, K.; Heydari, F.; Howley, P.; Yuce, M.R." Accurate Heart Rate and Respiration Rate Detection Based on a Higher-Order Harmonics Peak Selection Method Using Radar Non-Contact Sensors." *Sensors* 2022, 22, 83.
- [3]. K. Wang, F. Lin, D.T.H. Lai, S. Gong, B. Kibret, M.A. Ali, *et al.* "Soft gold nanowire sponge antenna for battery-free wireless pressure sensors," *Nanoscale*, 13 (2021), pp. 3957-3966.
- [4]. M. S. Mirshekarloo, M. C. D. Cooray, P. Jovanović, C. D. Easton, F. Wu, T. D. Gamot, M. J. Abedin, M. R. Yuce, M. Shaibani, M. Majumder, Liquid-Crystal Mediated Assembly of Iodinated Graphene Oxide for Ultra-Dense Supercapacitors as Safe Power Source for Internet of Things Data Transmission," *Batteries & Supercaps* 2021, 4, 1175.
- [5]. D. V. Anaya, K. Zhan, Li Tao, Chengkuo Lee, M. R. Yuce, T. Alan, "Contactless tracking of humans using non-contact triboelectric sensing technology: Enabling new assistive applications for the elderly and the visually impaired," *Nano Energy*, Volume 90, Part A, 2021, 106486, 2021.
- [6]. Stephanie J. Curtis, Asanka Rathnayaka, Fan Wu, Abdulla Al Mamun, Craig Spiers, Gordon Bingham, Colleen L. Lau, Anton Y. Peleg, Mehmet Rasit Yuce, Andrew J. Stewardson,

- “Feasibility of Bluetooth Low Energy wearable tags to quantify healthcare worker proximity networks and patient close contact: A pilot study,” *Infection, Disease & Health*, 2021.
- [7]. Vera Anaya, D. and Yuce, M.R. (2021), Stretchable triboelectric sensor for measurement of the forearm muscles movements and fingers motion for Parkinson's disease assessment and assisting technologies. *Med Devices Sens*, 4: e10154.
 - [8]. F. N. Alsunaydih M.R. Yuce, Next-generation ingestible devices: sensing, locomotion and navigation *Physiol. Meas.* 42, 2021.
 - [9]. S. Kennedy, D. Morrison, D. Delic, M. R. Yuce and J. -M. Redouté, "Fully-Integrated Dickson Converters for Single Photon Avalanche Diode Arrays," in *IEEE Access*, vol. 9, pp. 10523-10532, 2021.
 - [10]. Mamun, M.A.A.; Anaya, D.V.; Wu, F.; Yuce, M.R. Landmark-Assisted Compensation of User's Body Shadowing on RSSI for Improved Indoor Localisation with Chest-Mounted Wearable Device. *Sensors* **2021**, *21*, 5405.
 - [11]. F. Wu, C. Qiu, T. Wu and M. R. Yuce, "Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications," in *IEEE Internet of Things Journal*, vol. 8, no. 12, pp. 9970-9980, 15 June15, 2021.
 - [12]. D.V. Anaya, T. He, C. Lee and M. R. Yuce, "Self-powered Eye Motion Sensor based on Triboelectric Interaction and Near-field Electrostatic Induction for Wearable Assistive Technologies," *Nano Energy*, vol 72, 104675, 2020.
 - [13]. C. Qiu, F. Wu, C. Lee and M. R. Yuce "Self-powered control interface based on Gray code with hybrid triboelectric and photovoltaics energy harvesting for IoT smart home and access control applications," *Nano Energy*, vo. 70, 104456, April 2020.
 - [14]. An Autonomous Hand Hygiene Tracking Sensor System for Prevention of Hospital Associated Infections, *IEEE Sensor Journal*, accepted 2020.
 - [15]. Zhang, Z., He, T., Zhu, M. *et al.* Deep learning-enabled triboelectric smart socks for IoT-based gait analysis and VR applications. *npj Flex Electron* **4**, 29 (2020)
 - [16]. T. Wu, F. Wu, C. Qiu, J. -M. Redouté and M. R. Yuce, "A Rigid-Flex Wearable Health Monitoring Sensor Patch for IoT-Connected Healthcare Applications," *IEEE Internet of Things Journal*, vol. 7, no. 8, pp. 6932-6945, Aug. 2020.
 - [17]. M.A. Al Mamun, M.R. Yuce, "Recent Progress in Nanomaterial Enabled Chemical Sensors for Wearable Environmental Monitoring Applications," *Advanced Functional Materials*, 2020.
 - [18]. Tiance An, David Vera Anaya, Shu Gong, Lim Wei Yap, Fenge Lin, Ren Wang, Mehmet R. Yuce, Wenlong Cheng, "Self-powered gold nanowire tattoo triboelectric sensors for soft wearable human-machine interface, " *Nano Energy*, Volume 77,2020.
 - [19]. D. Morrison, S. Kennedy, D. Delic, M. R. Yuce and J. -M. Redouté, "A 64 × 64 SPAD Flash LIDAR Sensor using a Triple Integration Timing Technique with 1.95 mm Depth Resolution," in *IEEE Sensors Journal*, 2020. doi: 10.1109/JSEN.2020.3030788.
 - [20]. S. Asadi, Z. He, F. Heydari, D. Li, M. R. Yuce and T. Alan, "Graphene elastomer electrodes for medical sensing applications: Combining high sensitivity, low noise and excellent skin compatibility enabling continuous medical monitoring," in *IEEE Sensors Journal*, 2020.
 - [21]. Heydari, F, P. Ebrahim, M, Redoute, J-M, et al. Clinical study of a chest-based cuffless blood pressure monitoring system. *Wiley Med Devices Sens*. 2020.
 - [22]. A. Mohammadi, S. Sadrafshari, C. R. Bowen and M. R. Yuce, "Time Domain Multiplexing for Efficiency Enhanced Piezoelectric Energy Harvesting in MEMS," in *IEEE Electron Device Letters*, vol. 41, no. 3, pp. 481-484, March 2020.
 - [23]. F. N. Alsunaydih, Md S. Arefin, J.-M. Redoute, and M. R. Yuce, "A Navigation and Pressure Monitoring System for toward Autonomous Wireless Capsule Endoscopy, " *IEEE Sensors Journal*, 2020.

- [24]. F. Heydari, M. Pour Ebrahim, J-M. Redoute, K. Joe, K. Walker, M. R. Yuce, "A chest-based continuous cuffless blood pressure method: Estimation and evaluation using multiple body sensors," *Information Fusion*, vol. 54, pp. 119-127, February 2020.
- [25]. C. Qiu, F. Wu, Q. Shi, C. Lee and M. R. Yuce, "Sensors and Control Interface Methods Based on Triboelectric Nanogenerator in IoT Applications," *IEEE Access*, vol. 7, pp. 92745-92757, 2019.
- [26]. M. Pour Ebrahim, F. Heydari, T. Wu, K. Walker, K. Joe, J-M. Redoute, M. R. Yuce, "Blood Pressure Estimation Using On-body Continuous Wave Radar and Photoplethysmogram in Various Posture and Exercise Conditions," *Nature Sci. Rep.* 9, 16346 (2019).
- [27]. T. He, Z. Sun, Q. Shi, M. Zhu, D.V.Anaya, M.R.Yuce, C. Lee, "Self-powered Glove-based Intuitive Interface for Diversified Control Applications in Real/Cyber Space," *Nano Energy*, vol. 58, , Pages 641-651, April 2019.
- [28]. M. A. A. Mamun and M. R. Yuce, "Sensors and Systems for Wearable Environmental Monitoring Toward IoT-Enabled Applications: A Review," *IEEE Sensors Journal*, vol. 19, no. 18, pp. 7771-7788, 15 Sept.15, 2019.
- [29]. Q. Shia, C. Qiu, T. He, F. Wu, M. Zhu, J. A. Dziuban, R. Walczak, M. R. Yuce, C. Lee, "Triboelectric single-electrode-output control interface using patterned grid electrode," *Nano Energy*. Vol. 60, Pages 545-556, June 2019.
- [30]. Wu, F, Wu, T & Yuce, MR, 'An Internet-of-Things (IoT) Network System for Connected Safety and Health Monitoring Applications', *Sensors*, vol. 19, no. 1, pp. 21, 2019.
- [31]. Morrison, D, Delic, D, Yuce, MR & Redoute, 'Multistage Linear Feedback Shift Register Counters With Reduced Decoding Logic in 130-nm CMOS for Large-Scale Array Applications', *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, vol. 27, no. 1, pp. 103–115, 2019.
- [32]. T. Wu, F. Wu, J-M, Redoute, and M.R. Yuce, "A Wireless Implantable Sensor Design with Subcutaneous Energy Harvesting for Long-Term IoT Healthcare Applications," *IEEE Access*, vol. 6, pp. 35801–35808, 2018.
- [33]. Kennedy, S, Yuce, MR & Redoute, J 2018, 'Fully Integrated Switched-Capacitor DC/DC Converters With Clock Slope EMI Control', *IEEE Transactions on Electromagnetic Compatibility*, vol. 60, no. 6, pp. 2073–2075.
- [34]. F. N. Alsunaydih, J. M. Redoute and M. R. Yuce, "A Locomotion Control Platform with Dynamic Electromagnetic Field for Active Capsule Endoscopy," *IEEE Journal of Translational Engineering in Health and Medicine*, 2018.
- [35]. M. S. Arefin; J. M. Redoute; M. R. Yuce, "Integration of Low-power ASIC and MEMS Sensors for Monitoring Gastrointestinal Tract using a Wireless Capsule System," *EEE Journal of Biomedical and Health Informatics* ,vol. 22, no. 1, pp. 87-97, Jan. 2018.
- [36]. S. Kennedy; M. R. Yuce; J. M. Redoute, "A Low-EMI Fully Integrated Switched-Capacitor DC/DC Converter," *IEEE Transactions on Electromagnetic Compatibility*, vol. 60, no. 1, pp. 225-233, Feb. 2018.
- [37]. D. Buxi, E. Hermeling, M. Mercuri, T. Torfs, J-M, Redoute, M. R. Yuce, "Systolic Time Interval Estimation using Continuous Wave Radar with On-body Antennas," *IEEE Journal of Biomedical and Health Informatics*, vol. PP, no. 99, pp. 1-1, 2018.
- [38]. T. Wu, F. Wu, J-M, Redoute, and M.R. Yuce, "An Autonomous Wireless Body Area Network Implementation towards IoT Connected Healthcare Applications," *IEEE Access*, vol. 5, pp. 11413-11422, 2017.
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Patents/Disclosures:

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