

Mladen Veletić, Ph.D.

E-mail: mladen.veletic (@iet.ntnu.no, @rrr-research.no, @etf.unibl.org)
Home address: Oslo, Norway

PUBLICATIONS 2019:

1. **M. Veletić** and I. Balasingham, “An Information Theory of Neuro-transmission in Multiple-access Synaptic Channels”, *IEEE Transactions on Communications*, Volume xx, Issue xx, xx, pp. 1–1 (Early Access), <https://doi.org/10.1109/TCOMM.2019.2941692>
2. P. Lu, **M. Veletić**, M. Laasmaa, M. Vendelin, W. E. Louch, S. Halvorsen, J. Bergsland, I. Balasingham, “Multi-nodal Nano-actuator Pacemaker for Energy-efficient Stimulation of Cardiomyocytes”, *Elsevier Nano Communication Networks*, Volume 22, December 2019, 100270, <https://doi.org/10.1016/j.nancom.2019.100270>
3. M. Laasmaa, P. Lu, **M. Veletić**, W. E. Louch, J. Bergsland, I. Balasingham, M. Vendelin, “Energy-efficiency of Cardiomyocyte Stimulation with Rectangular Pulses”, *Scientific Reports*, Volume 9, Number 1, 2019, pp. 13307, <https://doi.org/10.1038/s41598-019-49791-w>
4. **M. Veletić** and I. Balasingham, “Synaptic Communication Engineering for Future Cognitive Brain-machine Interfaces”, *Proceedings of the IEEE*, Volume 107, Issue 7, July 2019, pp. 1425–1441, <https://doi.org/10.1109/JPROC.2019.2915199>
5. **M. Veletić**, M. T. Barros, I. Balasingham, S. Balasubramaniam, “A Molecular Communication Model of Exosome-mediated Brain Drug Delivery”, in *Proceedings of the Sixth Annual ACM International Conference on Nanoscale Computing and Communication*, Dublin, Ireland, September 2019, <https://doi.org/10.1145/3345312.3345478>
6. F. Hejri, **M. Veletić**, I. Balasingham, S. Balasubramaniam, “On the Cardiac Gap Junctions Channel Modeling”, in *Proceedings of the Sixth Annual ACM International Conference on Nanoscale Computing and Communication*, Dublin, Ireland, September 2019, <https://doi.org/10.1145/3345312.3345475>
7. E. Stenwig, **M. Veletić**, I. Balasingham, “Neural Response Analysis for Brain-Machine Interfaces”, in *Proceedings of the IEEE 13th International Symposium on Medical Information and Communication Technology*, Oslo, Norway, May 2019, <https://doi.org/10.1109/ISMICT.2019.8743726>

2018:

1. **M. Veletić**, I. Balasingham, “Capacity Estimation in MIMO Synaptic Channels”, in *Proceedings of the ACM 5th Annual International Conference on Nanoscale Computing and Communication*, Reykjavik, Iceland, September 2018, <https://doi.org/10.1145/3233188.3233195>
2. P. Lu, **M. Veletić**, J. Bergsland, I. Balasingham, “On the Intracellular Communication of Cardiomyocytes for Energy Efficient Leadless Pacemakers”, in *Proceedings of the ACM 5th Annual International Conference on Nanoscale Computing and Communication*, Reykjavik, Iceland, September 2018, <https://doi.org/10.1145/3233188.3233298>
3. **M. Veletić**, I. Balasingham, “Towards the Brain Information Capacity”, 3rd Workshop on Molecular Communications, Gent, Belgium, April 2018, <https://molecularcommunications.eu/2018/agenda.html#technical1>

2017:

1. G. Gardašević, **M. Veletić**, N. Maletić, I. Radusinović, S. Tomović, M. Radonjić, “IoT Architectural Framework, Design Issues and Application Domains”, *Wireless Personal Communications*, Springer, Volume 92, Issue 1, January 2017, pp. 127–148, <http://dx.doi.org/10.1007/s11277-016-3842-3>
2. **M. Veletić**, P. A. Floor, R. Komuro, I. Balasingham, “On Regulation of Neuro-Spike Communication for Healthy Brain”, *Modeling, Methodologies and Tools for Molecular and Nano-scale Communications*, Eds. J. Suzuki, T. Nakano, M. J. Moor, Springer Publishing, 2017, https://doi.org/10.1007/978-3-319-50688-3_9
3. **M. Veletić**, I. Balasingham, “The Neural Communication Network: A Brief Review on Neuromodeling and Neuroengineering”, in *Proceedings of the 24th IEEE Telecommunication Forum (TELFOR 2016)*, Belgrade, Serbia, November 2016, <http://ieeexplore.ieee.org/document/7818725>

2016:

1. **M. Veletić**, P. A. Floor, Y. Chahibi, I. Balasingham, “On the Upper Bound of the Information Capacity in Neuronal Synapses”, *IEEE Transactions on Communications*, Volume 64, Issue 12, December 2016, pp. 5025–5036, <http://dx.doi.org/10.1109/TCOMM.2016.2613970>
2. **M. Veletić**, P. A. Floor, Z. Babić, I. Balasingham, “Peer-to-Peer Communication in Neuronal Nano-Network”, *IEEE Transactions on Communications*, Volume 64, Issue 3, March 2016, pp. 1153–1166, <http://dx.doi.org/10.1109/TCOMM.2016.2526657>

2015:

1. F. Mesiti, **M. Veletić**, P. A. Floor, I. Balasingham, “Astrocyte-Neuron Communication as Cascade of Equivalent Circuits”, *Elsevier Nano Communication Networks*, Volume 6, Issue 4, December 2015, pp. 183–197, ISSN 1878-7789, <http://dx.doi.org/10.1016/j.nancom.2015.08.005>
2. **M. Veletić**, F. Mesiti, P. A. Floor, I. Balasingham, “Communication Theory Aspects of Synaptic Transmission”, in *Proceedings of the IEEE International Conference on Communications*, London, United Kingdom, June 2015, pp. 2719–2724, <http://dx.doi.org/10.1109/ICC.2015.7248472>
3. G. Gardasević, **M. Veletić**, N. Maletić, I. Radusinović, M. Radonjić, “An Overview of Internet of Things Architectural Frameworks, Design Issues and Application Domains”, 4th Annual CTIF-SEE Workshop, Budva, Montenegro, September 2015.

2014:

1. **M. Veletić**, M. Šunjevarić, “On the Cramer-Rao Lower Bound for RSS-based Positioning in Wireless Cellular Networks”, *Elsevier AEÜ - International Journal of Electronics and Telecommunications*, Volume 68, Issue 8, August 2014, pp. 730–736, ISSN 1434-8411, <http://dx.doi.org/10.1016/j.aeue.2014.02.012>
2. **M. Veletić**, P. A. Floor, F. Mesiti, I. Balasingham. “Nano network of neurons from communication engineering perspective”, Virtual Physiological Human Conference, Trondheim, Norway, September 2014.
3. F. Mesiti, P. A. Floor, **M. Veletić**, I. Balasingham, “Neuronal stimulation scenarios at nanoscale”, Virtual Physiological Human Conference, Trondheim, Norway, September 2014.

4. I. Balasingham, **M. Veletić**, F. Mesiti, P. A. Floor, “Electromagnetic Induced Nanonetworks for Alzheimer’s Disease Control”, *36th Annual International IEEE EMBS Conference*, Chicago IL, USA, 2014, FC18.3
5. **M. Veletić**, “Graph-Based Diagnosis and Treatment of Neuronal Communication Disorders”, in *Proceedings of the 37th IEEE International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO 2014)*, Opatija, Croatia, May 2014, pp. 256-261, Print ISBN: 978-953-233-081-6, <http://dx.doi.org/10.1109/MIPRO.2014.6859572>
6. **M. Veletić**, P. A. Floor, I. Balasingham, “From Nano-Scale Neural Excitability to Long Term Synaptic Modification”, in *Proceedings of the ACM 1st Annual International Conference on Nano-scale Computing and Communication*, Atlanta GA, USA, 2014, pp. 1-9, ISBN: 978-1-4503-2979-8, <http://dx.doi.org/10.1145/2619955.2619979>
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2013:

1. **M. Veletić**, Z. Babić, I. Balasingham, “On Spectrum Analysis for Nanomachine-to-Neuron Communications”, in *Proceedings of the IEEE 1st International Conference on Communications and Networking (BlackSeaCom)*, Batumi, Georgia, July 2013, pp. 64-68, E-ISBN: 978-1-4799-0857-8, <http://dx.doi.org/10.1109/BlackSeaCom.2013.6623382>
2. S. Divanović, M. Radonjić, I. Radusinović, N. Maletić, **M. Veletić**, D. Kosić, G. Gardašević, “Scheduling algorithms with QoS support for crosspoint queued crossbar switch”, in *Proceedings of Information Technologies*, Žabljak, Montenegro, February 2013, pp. 153-156