# **Production Scientifique** (par ordre chronologique décroissant)

- **Publications indexées**

1. Imane Khelouani, Kawtar Zerhouni, Fouzia Elbahhar Raja Elassali and Noureddine Idboufker, UFMC Waveform and Multiple-Access Techniques for5G RadCom, Electronics **2021**,10, 849. https://doi.org/10.3390/electronics10070849

2. Camelia Skiribou, Fouzia Elbahhar Boukour, Raja Elassali, DMRS-based channel estimation for railway communications in tunnel environments, Vehicular Communications Journal 29: 100340 (**2021**)

3. M. Boulouird, Abdelfettah BELHABIB and Abdelhamid RIADI, "Encryption Based Strategy to overcome the Problem of Pilot Contamination within Multi-Cellular Massive MIMO Systems". Wireless Personal Communications, **2021**. https://doi.org/10.1007/s11277-021-08349-8

4. Abdelfettah BELHABIB, M. Boulouird, and Moha M'Rabet HASSANI, "The Harmful Influence of Employing a Large Number of Pilot-Resources on the Performance of Massive MIMO Systems". International Journal of Modelling, Identification and Control (IJMIC), accepted for publication. **2021**

5. Abdelfettah BELHABIB, M. Boulouird, and Moha M'Rabet HASSANI, "HOWEFFECTIVE THE SOFT PILOT REUSE AND THE PILOT ASSIGNMENT BASED STRATEGIES ON MITIGATING THE PILOT CONTAMINATION WITHIN THE MULTI-CELL MASSIVE MIMO SYSTEMS?". International Journal of Computer Science and Applications (IJCSA), accepted for publication. **2021**

6. Abdelhamid RIADI, M. Boulouird, and Moha M'Rabet HASSANI, "ZF and MMSE detectors performances of a Massive MIMO system combined with OFDM and MQAM modulation". Wireless Personal Communications, Vol. 116, Issue 4, pp. 3261- 3276, February **2021**. https://doi.org/10.1007/s11277-020-07848-4

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2020, Article ID 8868597, 13 pages, **2020**. https://doi.org/10.1155/2020/8868597

10. Imane Khelouani, Fouzia Elbahhar, Raja Elassali and Noureddine Idboufker, Performance analysis of LDS Multi Access Technique and New 5G waveforms for V2X Communication, Electronics **2020**,9, 1094; doi:10.3390/electronics9071094, www.mdpi.com/journal/electronics

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- **Ouvrages + Chapitre d'ouvrage**

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4. Jamal Amadid, M. Boulouird and Moha M'Rabet Hassani, "Channel Estimation with Pilot Contamination in Mutli-Cell Massive MIMO Systems". 2nd IEEE International Conference on Electronics, Control, Optimization and Computer Science (ICECOCS'20), 02-03 December **2020**, Kenitra, Morocco. https://doi.org/10.1109/ICECOCS50124.2020.9314560

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21. I. Khelouani, F. Elbahhar, R. Elassali , Smart City and 5G, IWITC'18, 3-4 Mai 2018

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