

## Publications of the Research Institute for Information Technology and Computer Science (InforTech)

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2020

### Journal Article/Peer-Reviewed Article

- Gillis Nicolas, Karow Michael, Sharma Punit, "A note on approximating the nearest stable discrete-time descriptor system with fixed rank" in Applied Numerical Mathematics, 148, 131-139 (2020)  
**Full Text** : [44\\_A\\_note\\_on\\_approximating\\_the\\_nearest\\_stable\\_discrete-time\\_descriptor\\_systems\\_with\\_fixed\\_rank.pdf](#) (Open Access)

2019

### Journal Article/Book Review

- BLAIECH Ahmed Ghazi, BEN KHALIFA Khaled, Valderrama Carlos, FERNANDES Marcelo A.C., BEDOUI Mohamed Hedi, "Taxonomy of FPGA-Based Topologies for Future Deep Learning Architectures" in Journal of Systems Architecture (2019)  
**Full Text** : [Ahmed Ghazi BLAIECH\\_accepted\\_paper.pdf](#) (UMONS staff members only)

### Journal Article/Peer-Reviewed Article

- Vandersickel Nele, Van Nieuwenhuysse Enid, Van Cleemput Nico, Goedgebeur Jan, El Haddad Milad, De Neve Jan, Demolder Anthony, Strisciuglio Teresa, Duytschaever Mattias, Alexander Panfilov, "Directed Networks as a Novel Way to Describe and Analyze Cardiac Excitation: Directed Graph Mapping" in Frontiers in Physiology, 10, 14 pages (2019)  
**Full Text** : [fphys-10-01138.pdf](#) (UMONS staff members only)
- Goedgebeur Jan, Zamfirescu Carol, "On almost hypohamiltonian graphs" in Discrete Mathematics and Theoretical Computer Science, 21, 4, 18 pages (2019)  
**Full Text** : [1606.06577.pdf](#) (Open Access)
- Ang Man Shun, Gillis Nicolas, "Algorithms and Comparisons of Non-negative Matrix Factorization with Volume Regularization for Hyperspectral Unmixing" in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 10.1109/JSTARS.2019.2925098 (2019)  
**Full Text** : [41\\_Algorithms\\_and\\_Comparisons\\_of\\_Non-negative\\_Matrix\\_Factorization\\_with\\_Volume\\_Regularization\\_for\\_Hyperspectral\\_Unmixing.pdf](#) (Open Access)
- Cohen Jeremy E., Gillis Nicolas, "Identifiability of Complete Dictionary Learning" in SIAM Journal on Mathematics of Data Science, 1, 3, 518-536 (2019)  
**Full Text** : [43\\_Identifiability\\_of\\_Complete\\_Dictionary\\_Learning.pdf](#) (Open Access)
- Gillis Nicolas, Shitov Yaroslav, "Low-Rank Matrix Approximation in the Infinity Norm" in Linear Algebra and its Applications, 581, 367-382 (2019)  
**Full Text** : [42\\_Low-Rank\\_Matrix\\_Approximation\\_in\\_the\\_Infinity\\_Norm.pdf](#) (Open Access)
- Goedgebeur Jan, Ozeki Kenta, Van Cleemput Nico, Wiener Gábor, "On the minimum leaf number of cubic graphs" in Discrete Mathematics, 342, 11, 3000-3005 (2019)  
**Full Text** : [1-s2.0-S0012365X19302018-main.pdf](#) (UMONS staff members only)
- El Adoui Mohammed, Mahmoudi Sidi, LARHMAM Mohamed Amine, Benjelloun Mohammed, "MRI Breast Tumor Segmentation Using Different Encoder and Decoder CNN Architectures" in Computers, 8, 3, 52-63, <https://doi.org/10.3390/computers8030052> (2019)  
**Full Text** : [computers-08-00052.pdf](#) (Open Access)
- Costa Silva Fabrício, Alves De Albuquerque Glauberto Leilson, SILVEIRA Luiz Felipe Q., Valderrama Carlos, Xavier De Souza Samuel, "Variance-Triggered Two-Step GPS Acquisition" in Sensors, 19, 13, 1-19, sensors-479277 (2019)  
**Full Text** : [FABRICIO\\_\\_Variation\\_triggered\\_two\\_steps\\_GPS\\_acquisition-1.pdf](#) (UMONS staff members only)

- El Adoui Mohammed, Drisis Stylianos, Benjelloun Mohammed, "3D Deep Learning approach to predict breast tumor response to chemotherapy using two DCE-MRI volumes" in International Journal of Computer Assisted Radiology and Surgery (2019)
- Melab Nouredine, Gmys Jan, Mezamaz Mohand, Tuytens Daniel, "Many-core Branch-and-Bound for GPU accelerators and MIC coprocessors" in Studies in Computational Intelligence, 833, 275-291 (2019)  
**Full Text** : [22-Melab-et-al.pdf](#) (Open Access)
- Mahmoudi Sidi, Belarbi Mohammed Amin, Dadi El Wardani, Mahmoudi Said, Benjelloun Mohammed, "Cloud-Based Image Retrieval Using GPU Platforms" in Computers (2019)  
**Full Text** : [computers-08-00048\\_\(1\).pdf](#) (Open Access)
- Moghaddam Atefeh, Teghem Jacques, Tuytens Daniel, Yalaoui Farouk, Amodeo Lionel, "Toward an Efficient Resolution for a Single-machine Bi-objective Scheduling Problem with Rejection" in Foundations of Computing and Decision Sciences, 44, 2, 179-211, DOI:10.2478/fcds-2019-0010 (2019)  
**Full Text** : [\[23003405 - Foundations of Computing and Decision Sciences\] Toward an Efficient Resolution for a Single-machine Bi-objective Scheduling Problem with Rejection.pdf](#) (UMONS staff members only)
- Pessoa Tiago Carneiro, Gmys Jan, Melab Nouredine, de Carvalho Junior Fransisco Heron, Pedrosa Rebouças Filho Pedro, Tuytens Daniel, "Dynamic Configuration of CUDA Runtime Variables for CDP-based Divide-and-Conquer Algorithms" in Lecture Notes in Computer Science, 11333, 16-30 (2019)  
**Full Text** : [VECPAR\\_2018\\_paper\\_9.pdf](#) (Open Access)
- El Adoui Mohammed, Vulchi Manasa, Braman Nathaniel, Turk Paulette, Etesami Maryam, Drisis Stylianos, Plecha Donna, Benjelloun Mohammed, Madabhushi Anant, Abraham Jame, "Development and external validation of a deep learning model for predicting response to HER2-targeted neoadjuvant therapy from pretreatment breast MRI." in Journal of Clinical Oncology, 37, 15, 593-593, [https://doi.org/10.1200/JCO.2019.37.15\\_suppl.593](https://doi.org/10.1200/JCO.2019.37.15_suppl.593) (2019)  
**Full Text** : [asco\\_jco37\\_593\\_Ref.bib](#) (Open Access)
- Abdolali Maryam, Gillis Nicolas, Rahmati Mohammad, "Scalable and Robust Sparse Subspace Clustering Using Randomized Clustering and Multilayer Graphs" in Signal Processing, 163, 166-180 (2019)  
**Full Text** : [40 Scalable and Robust Sparse Subspace Clustering Using Randomized Clustering and Multilayer Graphs.pdf](#) (Open Access)
- Itani Sarah, Rossignol Mandy, Lecron Fabian, Fortemps Philippe, "Towards Interpretable Machine Learning Models for Diagnosis Aid: A Case Study on Attention Deficit/Hyperactivity Disorder" in PLoS ONE, 14, 4, DOI: 10.1371/journal.pone.0215720 (2019)  
**Full Text** : [journal.pone.0215720.pdf](#) (Open Access)
- Esposito Flavia, Gillis Nicolas, Del Buono Nicoletta, "Orthogonal joint sparse NMF for microarray data analysis" in Journal of Mathematical Biology, 79, 1, 223-247 (2019)  
**Full Text** : [39 Orthogonal joint sparse NMF for microarray data analysis.pdf](#) (Open Access)
- Decan Alexandre, Mens Tom, Spanoudakis Nikolaos I., "A method for testing and validating executable statechart models" in Software and Systems Modeling, 18, 2, 837-863, <https://doi.org/10.1007/s10270-018-0676-3> (2019)  
**Full Text** : [sosym-article.pdf](#) (UMONS staff members only)
- Aubrey Sophie, Laraba Sohaib, Tilmanne Joëlle, Dutoit Thierry, "Action recognition based on 2D skeletons extracted from RGB videos" in MATEC Web of Conferences, 227, 02034 (2019)  
**Full Text** : [mateconf\\_jcmme2018\\_02034.pdf](#) (Open Access)
- Gillis Nicolas, Karow Michael, Sharma Punit, "Approximating the nearest stable discrete-time system" in Linear Algebra and its Applications, 573, 37-53 (2019)  
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- Zerouali Ahmed, Mens Tom, Gonzalez-Barahona Jesus, Decan Alexandre, Constantinou Eleni, Robles Gregorio, "A formal framework for measuring technical lag in component repositories -- and its application to npm" in Journal of Software: Evolution and Process, <https://doi.org/10.1002/smr.2157> (2019)  
**Full Text** : [Zerouali\\_et\\_al\\_2019-Journal\\_of\\_Software\\_\\_Evolution\\_and\\_Process.pdf](#) (UMONS staff members only)

- Itani Sarah, Lecron Fabian, Fortemps Philippe, "Specifics of Medical Data Mining for Diagnosis Aid: A Survey" in Expert Systems with Applications, 118, 300-314, DOI: 10.1016/j.eswa.2018.09.056 (2019)  
**Full Text** : [1-s2.0-S0957417418306389-main.pdf](#) (UMONS staff members only) [Abstract.pdf](#) (Open Access)
- Exoo Geoff, Goedgebeur Jan, "Bounds for the smallest k-chromatic graphs of given girth" in Discrete Mathematics and Theoretical Computer Science, 21, 3, 16 pages (2019)  
**Full Text** : [1805.06713.pdf](#) (Open Access)
- Atif Syed Muhammad, Qazi Sameer, Gillis Nicolas, "Improved SVD-based Initialization for Nonnegative Matrix Factorization using Low-Rank Correction" in Pattern Recognition Letters, 122, 53-59 (2019)  
**Full Text** : [37 Improved SVD-based initialization for nonnegative matrix factorization using low-rank correction.pdf](#) (Open Access)
- Viseur Robert, Charleux Amel, "Changement de gouvernance et communautés open source : le cas du logiciel Caroline" in Innovations: Revue d'Economie et de Management de l'Innovation (2019)
- Belarbi Mohammed Amin, Mahmoudi Sidi, Mahmoudi Said, Belalem Ghalem, "A New Parallel and Distributed Approach for Large Scale Images Retrieval" in Lecture Notes in Network and Systems. Intelligent Technologies and Robotics (2019)
- Mahmoudi Sidi, Belarbi Mohammed Amin, Manneback Pierre, "Towards a Smart Exploitation of GPUs for Low Energy Motion Estimation Using Full HD and 4K Videos" in Lecture Notes in Network and Systems. Intelligent Technologies and Robotics (2019)
- Ang Man Shun, Gillis Nicolas, "Accelerating Nonnegative Matrix Factorization Algorithms Using Extrapolation" in Neural Computation, 31, 2, 417-439 (2019)  
**Full Text** : [36 Accelerating Nonnegative Matrix Factorization Algorithms using Extrapolation.pdf](#) (Open Access)
- Patel Warish D., Patel Chirag, Valderrama Carlos, "IoMT based Efficient Vital Signs Monitoring System for Elderly Healthcare Using Neural Network" in International Journal of Research, VIII, 1, 239-244, DOI:16.10089.IJR.2018.V8I1.285311.234454 (2019)  
**Full Text** : [IoMT based Efficient Vital Signs Monitoring System\\_IJR Journal\\_Scopus Index\\_UGC Recognized.pdf](#) (UMONS staff members only)
- Goedgebeur Jan, Mácajová Edita, Škoviera Martin, "Smallest snarks with oddness 4 and cyclic connectivity 4 have order 44" in Ars Mathematica Contemporanea, 16, 2, 277-298 (2019)  
**Full Text** : [1601-8052-1-PB-1.pdf](#) (Open Access)
- Mens Tom, Cataldo Marcelo, Damian Daniela, "The Social Developer: The Future of Software Development [Guest Editors' Introduction]" in IEEE Software, 36, 1, 11-14, 10.1109/MS.2018.2874316 (2019)  
**Full Text** : [ieeesoftware2019-socialdeveloper-guestintro.pdf](#) (UMONS staff members only)

#### Conference/Peer-Reviewed Conference Paper

- Patel Monal, YADAV ARVIND, Valderrama Carlos, "YOLO-based Method for Indian Car License Plate Detection" in "ISER ICABMIS International Conference on Advances in Business Management and Information Science", 63-67, Sydney, Australia (2019)  
**Full Text** : [2019\\_Monal\\_Patel\\_ISER\\_ICABMIS\\_AU\\_\(PUB\\_SEMI\)\\_IS-ABMISSYDNY-05099-12914\\_63-67.pdf](#) (Open Access)
- Abou Khalil Zeinab, Constantinou Eleni, Mens Tom, Duchien Laurence, Quinton Clément, "A Longitudinal Analysis of Bug Handling Across Eclipse Releases" in "IEEE International Conference on Software Maintenance and Evolution", Cleveland, Ohio, USA (2019)  
**Full Text** : [ISCME2019Zeinab.pdf](#) (Open Access)
- Golzadeh Mehdi, "Analysing Socio-technical Congruence in the Package Dependency Network of Cargo" in "European Software Engineering Conference", Tallinn, Estonia (2019)  
**Full Text** : [FSE2019SRC-GolzadehMehdi.pdf](#) (Open Access)

- Gobert Maxime, Gmys Jan, Toubeau Jean-François, Vallée François, Melab Nouredine, Tuytens Daniel, "Surrogate-Assisted Optimization for Multi-Stage Optimal Scheduling of Virtual Power Plants" in "International Conference on High Performance Computing & Simulation", Dublin, Irelande (2019)  
**Full Text** : [PaCOS19.pdf](#) (Open Access)
- Charleux Amel, Viseur Robert, Mione Anne, "Open Source Innovation: Enabler or Hinderer of Business Model Dynamics?" in "EURAM", Lisbonne, Portugal (2019)
- Viseur Robert, Jullien Nicolas, "Construction d'une méthode d'évaluation des actifs immatériels open source" in "Congrès INFORSID", Paris, France (2019)
- Zerouali Ahmed, Cosentino Valerio, Robles Gregorio, Gonzalez-Barahona Jesus, Mens Tom, "A Tool to Analyze Packages in Software Containers" in "IEEE Working Conference on Mining Software Repositories", Montreal, Canada (2019)  
**Full Text** : [msr2019-ConPan-Zerouali.pdf](#) (UMONS staff members only)
- Moreno David, Duenas Santiago, Cosentino Valerio, Zerouali Ahmed, Fernandez Miguel Angel, Robles Gregorio, Gonzalez-Barahona Jesus, "SortingHat: Wizardry on Software Project Members" in "ICSE 2019: 41st ACM/IEEE International Conference on Software Engineering", Montréal, Canada (2019)
- Benjelloun Mohammed, El Adoui Mohammed, LARHMAM Mohamed Amine, Mahmoudi Sidi, "Automated Breast Tumor Segmentation in DCE-MRI Using Deep Learning" in "The 4th IEEE International Conference on Cloud Computing Technologies and Applications", Brussel, Belgique (2019)  
**Full Text** : [CloudTech18\\_paper.pdf](#) (UMONS staff members only)
- Debauche Olivier, Mahmoudi Said, Mahmoudi Sidi, "Internet of Things: learning and practices. Application to Smart City" in "The 4th IEEE International Conference on Cloud Computing Technologies and Applications", Brussel, Belgique (2019)  
**Full Text** : [bare\\_conf.pdf](#) (Open Access)
- Gafour Yacine, Berrabah Djamel, Mahmoudi Sidi, "Robust Facial Recognition Using Extended Local Binary Patterns" in "The 4th IEEE International Conference on Cloud Computing Technologies and Applications", Brussel, Belgique (2019)
- Bornia Jemai, Mahmoudi Sidi, Frihida Ali, Manneback Pierre, "Towards a Semantic Video Analysis using Deep Learning and Ontology" in "The 4th IEEE International Conference on Cloud Computing Technologies and Applications", Brussel, Belgique (2019)
- El Adoui Mohammed, Drisis Stylianos, Benjelloun Mohammed, "Predict breast tumor response to chemotherapy using a 3D deep learning architecture applied to DCE-MRI data" in "International Work-Conference on Bioinformatics and Biomedical Engineering", Granada, Spain (2019)
- Ramos Gomes Da Silva Vitor, Valderrama Carlos, De Souza Samuel Xavier, Manneback Pierre, "An Accurate Tool for Modeling, Fingerprinting, Comparison, and Clustering of Parallel Applications Based on Performance Counters" in "IEEE International Parallel and Distributed Processing Symposium", Rio de Janeiro, Brazil (2019)  
**Full Text** : [Novel\\_HPC\\_Clustering\\_and\\_Accurate\\_Application\\_Analysis\\_Tool\\_Based\\_on\\_Performance\\_Counters\(1\).pdf](#) (Open Access)
- Charlier Maximilien, Quoitin Bruno, Hauweele David, "Challenges in Using Time Slotted Channel Hopping With Ultra Wideband Communications" in "ACM, International Conference on Internet of Things Design and Implementation (IoTDI '19)", Montreal, Canada (2019)  
**Full Text** : [Challenges\\_in\\_Using\\_Time\\_Slotted\\_Channel\\_Hopping\\_With\\_Ultra\\_Wideband\\_Communications.pdf](#) (UMONS staff members only)
- Roland François, Filippi Enrico, Moeyaert Véronique, Bette Sébastien, "Fab-IoT-Lab: Technological Expertise Guidance and Prototyping Skills in a Single Place" in "World Forum on Internet of Things", Limerick, Ireland (2019)  
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- Bornia Jemai, Frihida Ali, Mahmoudi Sidi, Manneback Pierre, "Towards a Semantic Video Analysis using Deep Learning and Ontology" in "IEEE International Conference on Advanced Systems and Emergent Technologies (IC\_ASET'2019)", Hammamet, Tunisia (2019)
- Zerouali Ahmed, Mens Tom, Robles Gregorio, Gonzalez-Barahona Jesus, "On the Diversity of Software Package Popularity Metrics: An Empirical Study of npm" in "IEEE International Conference on Software Analysis, Evolution, and Reengineering", Hangzhou, Chine (2019)

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- Zerouali Ahmed, Cosentino Valerio, Mens Tom, Robles Gregorio, Gonzalez-Barahona Jesus, "On the Impact of Outdated and Vulnerable Javascript Packages in Docker Images" in "IEEE International Conference on Software Analysis, Evolution, and Reengineering", Hangzhou, Chine (2019)  
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- Zerouali Ahmed, Mens Tom, Robles Gregorio, Gonzalez-Barahona Jesus, "On The Relation Between Outdated Docker Containers, Severity Vulnerabilities and Bugs" in "IEEE International Conference on Software Analysis, Evolution, and Reengineering", Hangzhou, Chine (2019)  
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- El Adoui Mohammed, LARHMAM Mohamed Amine, Drisis Stylianos, Benjelloun Mohammed, "Deep Learning approach predicting breast tumor response to neoadjuvant treatment using DCE-MRI volumes acquired before and after chemotherapy" in "SPIE MEDICAL IMAGING Computer-Aided Diagnosis", San diego, Californie (2019)
- Leplat Valentin, Ang Man Shun, Gillis Nicolas, "Minimum-Volume Rank-Deficient Nonnegative Matrix Factorizations" in "IEEE International Conference on Acoustics, Speech, and Signal Processing", Brighton, UK (2019)  
**Full Text :** [11 Minimum-Volume Rank-Deficient Nonnegative Matrix Factorizations - ICASSP 2019.pdf](#) (UMONS staff members only)
- Cohen Jeremy E., Gillis Nicolas, "Nonnegative Low-Rank Sparse Component Analysis" in "IEEE International Conference on Acoustics, Speech, and Signal Processing", Brighton, UK (2019)  
**Full Text :** [12 Nonnegative Low-Rank Sparse Component Analysis - ICASSP 2019.pdf](#) (UMONS staff members only)
- Gillis Nicolas, "Separable Simplex-Structured Matrix Factorization: Robustness of Combinatorial Approaches" in "IEEE International Conference on Acoustics, Speech, and Signal Processing", Brighton, UK (2019)  
**Full Text :** [10 Separable Simplex-Structured Matrix Factorization Robustness of Combinatorial Approaches - ICASSP 19.pdf](#) (UMONS staff members only)

#### Conference/Conference Contribution

- Mahmoudi Sidi, "IA et calcul à haute performance (HPC)" in "Séminaire "Professeur invité"", Université Mohammed V, Rabat, Maroc (2019)
- Goedgebeur Jan, "Graphs with few hamiltonian cycles" in "9th Slovenian International Conference on Graph Theory", Bled, Slovenia (2019)
- Mahmoudi Sidi, "Embedded System for Computer Vision and Video surveillance using Deep Learning Technologies" in "ID2Move Belgian Academic Seminar Autonomous Systems", Nivelles, Belgique (2019)
- Viseur Robert, "Quelle place pour les démarches participatives et open source ?" in "Journée annuelle du Club Francophone d'Information Brevet (CFIB)", Gosselies, Belgique (2019)
- Charlier Maximilien, "UWB-TSCH : Time and Frequency Division Multiplexing for UWB Communications" in "Rencontres Francophones sur la Conception de Protocoles, l'Évaluation de Performance et l'Expérimentation des Réseaux de Communication (CORES2019)", Saint Laurent de la Cabrerisse, France (2019)  
**Full Text :** [presentation.pdf](#) (Open Access)
- Quenon Alexandre, "Energy harvesting in nuclear environments" in "Infortech Day", Mons, BE (2019)  
**Full Text :** [Infortech\\_Day\\_\\_presentation\\_QUENON\\_Alexandre.pdf](#) (Open Access)
- Roland François, "Fab-IoT-Lab" in "Infortech Day", Mons, BE (2019)  
**Full Text :** [FrancoisRoland-InfortechDay2019-Presentation.pdf](#) (Open Access)
- Moulin Manon, "Optimization of an industrial 802.15.4e deployment" in "Infortech Day", Mons, BE (2019)
- Charlier Maximilien, "Precise localization using Ultra wideband technology" in "Infortech Day", Mons, BE (2019)  
**Full Text :** [infortech.pdf](#) (Open Access)
- Charlier Maximilien, "Challenges in Using Time Slotted Channel Hopping With Ultra Wideband Communications" in "ACM, International Conference on Internet of Things Design and Implementation (IoTDI '19)", Montreal, Canada (2019)

**Full Text :** [presentation.pdf](#) (Open Access)

- Charlier Maximilien, "Techniques de localisation en intérieur" in "Séminaire Jeunes (Math-Info)" , Mons, Belgique (2019)  
**Full Text :** [presentation-final.pdf](#) (Open Access)
- Moeyaert Véronique, "Power Line Communications: from fundamentals to applications" in "INCASE workshop 'Combining Power & Data'" , Kortrijk, Belgique (2019)  
**Full Text :** [2019\\_02\\_20.pdf](#) (Open Access)
- Charlier Maximilien, "Indoor UWB localization in high density and large scale" in "2nd Mini-workshop on Wireless Sensor Networks and IoT" , Mons, Belgique (2019)  
**Full Text :** [2019-01-31-UMONS-Charlier-UWB-Localization.pdf](#) (Open Access)
- Itani Sarah, Lecron Fabian, Fortemps Philippe, "Data science for medical diagnosis prediction: objectives and challenges" in "Complex Systems think tank" , Mons, Belgium (2019)
- Dumont Marie, De Lièvre Bruno, Temperman Gaëtan, "Effets d'un dispositif d'apprentissage de l'orthographe sur de futurs Instituteurs primaires au niveau de l'analyse des performances, du sentiment d'efficacité et de la perception de soi" in "31e colloque annuel de l'ADMEE-Europe - « Entre normalisation, contrôle et développement formatif : Évaluations sources de synergies ? »" , Lausanne, Suisse (2019)  
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#### Conference/Conference Poster

- Mahmoudi Sidi, "IA and Deep Learning for computer vision and multimedia retrieval" in "Deep Learning Academy" , Université de Louvain La Neuve, Belgique (2019)
- Amkrane Yassine, El Adoui Mohammed, Benjelloun Mohammed, "Breast cancer response to chemotherapy by Radiomics" in "Mardi des Chercheurs 2019 (MdC2019)" , Mons, Belgique (2019)
- Itani Sarah, Rossignol Mandy, Lecron Fabian, Fortemps Philippe, "Autism in DSM-IV vs DSM-V: What if Machine Learning Could Help Us See Things More Clearly?" in "13th National Congress of the Belgian Society for Neuroscience" , Brussels, Belgium (2019)
- Van Laere Aurélien, Bette Sébastien, Moeyaert Véronique, "Broadband PLC in railway signaling: an IoT use-case" in "Infortech Day" , Mons, BE (2019)
- Belarbi Mohammed Amin, Mahmoudi Sidi, Mahmoudi Said, Belalem Ghalem, "Dimensionality Reduction in Large Scale Image Databases" in "Infortech Day" , Mons, BE (2019)
- Roland François, Jovicic Nikola, Debauche Olivier, Bette Sébastien, Moeyaert Véronique, "Experimental setup to monitor environment impact on LoRa transmissions" in "Infortech Day" , Mons, BE (2019)  
**Full Text :** [FrancoisRoland-InfortechDay2019-A0.pdf](#) (Open Access)
- Nolack Fote Fabrice, Roukh Amine, Mahmoudi Said, Mahmoudi Sidi, "IoT Data Analysis for Smart Farming : The Wallesmart Project" in "Infortech Day" , Mons, BE (2019)  
**Full Text :** [Infortech.pdf](#) (UMONS staff members only)
- Georlette Véronique, Bette Sébastien, Moeyaert Véronique, "Outdoor Visible Light Communication in the context of Smart Cities" in "Infortech Day" , Mons, BE (2019)
- Dualibe Fortunato, Quenon Alexandre, García-Vázquez Hugo, "Sustainable electronics based on Wireless Power Transfer techniques: some contributions from the COST ACTION IC1301" in "Infortech Day" , Mons, BE (2019)
- Amkrane Yassine, El Adoui Mohammed, Benjelloun Mohammed, "Approches d'imagerie et machine learning pour la prédiction de la réponse d'un cancer du sein à la chimiothérapie" in "Workshop UMHAP Medical Research Center" , Mons, Belgium (2019)  
**Full Text :** [poster\\_UHMAP.pdf](#) (UMONS staff members only)
- Nolack Fote Fabrice, Roukh Amine, Mahmoudi Said, Mahmoudi Sidi, "WALLESMART : Enter wallon rearing into the 4.0 digital revolution" in "Mardi des Chercheurs 2019 (MdC2019)" , Mons, Belgique (2019)  
**Full Text :** [MdC\\_2019\\_Fabrice.pdf](#) (UMONS staff members only)

- Itani Sarah, Lecron Fabian, Fortemps Philippe, "Artificial Intelligence for Medical Diagnosis: Insights into Major Paradigms" in "Mardi des Chercheurs" , Mons, Belgique (2019)
- Quenon Alexandre, Dualibe Fortunato, "Energy harvesting methods for powering Wireless Sensor Networks used to monitor nuclear environments: an overview" in "Mardi des Chercheurs 2019 (MdC2019)" , Mons, Belgique (2019)  
**Full Text** : [Poster\\_Alexandre\\_QUENON\\_v\\_1\\_0.pdf](#) (Open Access)
- Roland François, Debauche Olivier, Filippi Enrico, Bette Sébastien, "Geolocation of Tools on Construction Sites and LoRa Performance" in "Mardi des Chercheurs 2019 (MdC2019)" , Mons, Belgique (2019)  
**Full Text** : [MDC2019-FrancoisRoland.pdf](#) (Open Access)
- Charlier Maximilien, "Implementation and evaluation of TSCH over UWB" in "Mardi des Chercheurs" , Mons, Belgique (2019)
- Georlette Véronique, "LiFi Technology" in "Mardi des Chercheurs 2019 (MdC2019)" , Mons, Belgique (2019)  
**Full Text** : [2019\\_MatinéeChercheurs.pdf](#) (Open Access)
- Honfoga Anne-Carole, Moeyaert Véronique, Dossou M., "Optimization of channel coding and modulation functions used in DVB-T2" in "Mardi des Chercheurs 2019 (MdC2019)" , Mons, Belgique (2019)  
**Full Text** : [PosterAnneCarole.pdf](#) (Open Access)
- Itani Sarah, Thanou Dorina, Rossignol Mandy, Lecron Fabian, Fortemps Philippe, "Exploiting the Structure-Function Interplay of Brain Regions for the Diagnosis of Autism Spectrum Disorder: A Machine Learning Approach" in "The Childbrain Conference " , Leuven, Belgique (2019)
- Charlier Maximilien, "Implementation and evaluation of TSCH over UWB" in "2nd Mini-workshop on Wireless Sensor Networks and IoT" , Mons, Belgique (2019)

#### Book/Book Part

- Raluca Maria Aileni, Suci G., Balaceanu C., Beceanu C., Petrache A., Nadrag C., Sever Pasca, Valderrama Carlos, "Body Area Network Challenges and Solutions" in Raluca Maria Aileni, Suci G., Balaceanu C., Beceanu C., Petrache A., Nadrag C., Sever Pasca, Valderrama Carlos, "Body Area Network Challenges and Solutions" , Springer International Publishing, Maheswar R., G. Kanagachidambaresan R., Jayaparavathy Raman, Thampi Sabu M., 978-3-030-00865-9 (2019)
- Aileni Raluca Maria, Suci G., Balaceanu C., Valderrama Carlos, "Body Area Network (BAN) for Healthcare by Wireless Mesh Network (WMN)" in "Body Area Network Challenges and Solutions" , Springer International Publishing, 978-3-030-00865-9 (2019)

#### Directed Work/Doctoral Thesis

- Van Laere Aurélien, "Powerline communication transmission performance study in field conditions: cases of G3-PLC for smart metering and Homeplug AV2 for railway signaling" , Moeyaert Véronique, Bette Sébastien, soutenue le 2019-06-26 (2019)

#### Vulgarisation/Other Media

- Roland François, Filippi Enrico, Bette Sébastien, "Pecha Kucha Night IoT : Fab-IoT-Lab" , présentation orale format Pecha Kucha, Tournai (2019)  
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