



## Dr. Samir Brahim Belhaouari (PhD)

### Associate Professor

College of Science and Engineering

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the Federal Polytechnic School of Lausanne-Switzerland. He is currently an Associate Professor in the Division of Information and Communication Technologies at the College of Science and Engineering, HBKU.

Dr. Belhaouari has also held several research and teaching positions at Innopolis University, Russia, Alfaisal University, KSA, University of Sharjah, UAE, University Technology PETRONAS, Malaysia, and EPFL Federal Swiss School, Switzerland.



## Research Interests

- 1 Applied Mathematics, Statistics, and Data analysis
- 2 Artificial Intelligence
- 3 Image and Signal Processing (Biomedical, Bioinformatics, Forecasting)



## Experience

### Associate Professor

College of Science and Engineering, Hamad Bin Khalifa University

2016-Present

### Associate Professor

University of Sharjah, College of Science, UAE

2015-2017

### Associate Professor

INNOPOLIS University Kazan-Russian Federation - University project implemented in collaboration with Carnegie Mellon University (CMU, USA) and Swiss Federal Institute of Technology Zurich (ETH, Switzerland)

2014-2016

### Vice Dean of College of Science and General Studies

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University Technology of PETRONAS (UTP), Fundamental Applied Science Department,  
Malaysia

**2009-2012**

**Assistant Professor**

University Technology of PETRONAS (UTP), Electrical and Electronic Engineering  
Department, Malaysia

**2007-2009**

**Research Assistant**

Federal Polytechnic School of Lausanne, Laboratory of Stochastic Processes,  
Switzerland

**2001-2006**

**Mathematics Teacher**

Federal Polytechnic School of Lausanne, Gamma School of the Preparatory Program,  
Switzerland

**2000-2007**

**Developer and Researcher**

TRANSWITCH company, USA, in association with Integrated Systems Laboratory,  
Federal Polytechnic School of Lausanne, Switzerland

**2000-2001**



## Education

**Ph.D. in Mathematical Sciences : Stochastic processes and applications**

Federal Polytechnic School of Lausanne, (EPFL), Switzerland

2002-2006

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**M.Sc. in Networks and Telecommunications: Signal/Image Processing**

National Polytechnic Institute (INP/ENSEEIH), France

1999-2000



## Selected Publications

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### **On a general two-sample test with new critical value for multivariate feature selection in chest X-ray image analysis problem**

Applied Mathematical Sciences, Vol. 9, 2015, no. 147, 7317-

7325 <http://dx.doi.org/10.12988/ams.2015.510687> Brahim Belhaouari Samir, Hamada R. H. Al-Absi, Ramil F. Kuleev

**2015**

### **High accuracy traffic light controller for increasing the given green time utilization**

ELSEVIER, Computers and Electrical Engineering volume 41 (2015) pages 40–

51. <http://www.sciencedirect.com/science/article/pii/S0045790614003206> Maythem K. Abbas, Mohd N. Karsiti, Madzlan Napiah, Brahim B. Samir, and Marwan Al-Jemeli

**2015**

### **Probabilistic Rank Score Coding: A Robust Rank-order based Classifier for Electronic Nose Applications**

IEEE Sensors Journal, Volume PP Issue: 9 Muhammad Hassan, Brahim Belhaouari Samir, and Amine Bermak

**2015**

### **The density of the process of coalescing random walks**

International Journal of Pure and Applied Mathematics (IJPAM), Volume 99, No. 3, pages 325 – 341, 2015 <http://www.ijpam.eu/contents/2015-99-3/8/index.html>

**2015**

### **Capacity and error probability performance analysis for MIMO MC DS-CDMA system in $\eta$ - $\mu$ fading environment**

ELSEVIER: AEU - International Journal of Electronics and Communications, Volume 67, Issue 4, April 2013, Pages 269–

281. <http://www.sciencedirect.com/science/article/pii/S1434841112002014> James Osuru Marka and Samir Brahim Belhaouari

**2013**

### **A Statistical Based Feature Extraction Method for Breast Cancer Diagnosis in Digital Mammogram using Multi-Resolution Representation,**

Elsevier, Journal of Computer in Biology and Medicine, Elsevier, Volume 42, Issue 1, Pages 123–128 Ibrahima Faye, Brahim Belhaouari Samir

**2012**

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### Convergence results and sharp estimates for the voter model interface

Oxford Journal, Electronic Journal of Probability vol.11, Paper no. 30, pages 768-801, Impact Factor: 0.9.<http://ejp.ejpecp.org/article/view/349> Samir Brahim Belhaouari, T. Mountfor, R. sun and G. Valle

2006

### Tightness of the interface for one-dimensional voter models

Oxford journals, Proceeding of the London Mathematical Society, volume 94, number 2, pages 421-442, Impact Factor: 1.3.<http://plms.oxfordjournals.org/content/94/2/421.short> Samir Brahim Belhaouari, T. Mountfor

2006

### Partial Fractional Equations and Their Applications

Mathematical Problems in Engineering, vol. 2015, Article ID 387205, 1 pages, 2015. (Impact Factor 1.383 Abdon Atangana, and Samir Brahim Belhaouari

2015



### HONORS AND AWARDS

Outstanding Research Award (First Position), during the academic year 2014-2015 at university level, Alfaisal University, KSA <http://cos.alfaisal.edu/pdf/awards.pdf>

Outstanding Research Award (First Position), during the academic year 2014-2015 at the CoSGS level, Alfaisal University, KSA <http://cos.alfaisal.edu/pdf/awards.pdf>

Outstanding Service Award (First Position), during the academic year 2013-2014, College of Science & General Studies, Alfaisal University, KSA <http://cos.alfaisal.edu/pdf/awards.pdf>

Outstanding Teaching Award (Second Position), during the academic year 2013-2014, College of Science & General Studies, Alfaisal University, KSA <http://cos.alfaisal.edu/pdf/awards.pdf>

Silver Prize, Most innovative Award, postgraduate category (SEDEX32), Title of the project: An Efficient Computational Intelligence Technique for Protein Sequence Classification in Bioinformatics, December 2013, Malaysia.

BRONZE Prize, Most innovative Award, postgraduate category (SEDEX30), Title of the project: On the Provisioning of Extending the Efficiency of Intrusion Detection through

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Mathematic Award, National Mathematical Modeling Competition June 2012 (NMMC),  
Title of the project: Mathematical model of Investment planning, Malaysia.

Gold Medal, Title "Remote Body Temperature Monitoring System for Malaria Patients" in  
the Geneva exhibition held from 6th to 10th April 2011, Switzerland.

Silver Prize, Title "BODYTEMPTRAXX", Seoul International Invention Fair 2010 (SIIF2010),  
Korea Invention Promotion Association, South Korea.

Best Green Invention Award, Remote Body Temperature Monitoring System for Malaria  
Patients, 21th International Invention, Innovation & Technology Exhibition (ITEX10), May  
2010, Malaysia.

Senior Member, International Association of Computer Science and Information  
Technology (IACSIT), Singapore, [info@iacsit.org](mailto:info@iacsit.org)

Membership, Swiss Mathematical Society (SMS), Switzerland, <http://www.math.ch>

Membership, International Association of Engineers (IAENG), Hong  
Kong, <http://www.iaeng.org>

Achieved Fully funded scholarship from Federal Polytechnic School of Lausanne (EPFL),  
Switzerland, for Ph.D.

#### Biography

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#### Research Interests

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#### Experience

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#### Education

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#### Selected Publications

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