

CURRICULUM VITAE



Personal information

- *Personal*
 - Prof. Boutekkouk Fateh
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Education

- **Ph.D.'s degree** in Computer science

Functions and Affiliations

- **Professor at the department of Math and computer science**

Teaching modules

Languages theory, Formal design methods

International publications

Hemza Merouani, Fateh Boutekkouk, Imad Merouani:
UML/event-B-based modelling and verification of the car cruise control system. *Int. J. Comput. Aided Eng. Technol.* 16(1): 14-39 (2022)

Fateh Boutekkouk:
A literature review on security-aware design space exploration approaches for embedded systems. *Int. J. Secur. Networks* 17(4): 247-268 (2022)

Fateh Boutekkouk:
Embedded Systems Design Space Exploration Under Security Constraints. *Int. J. Technol. Diffusion* 13(1): 1-32 (2022)

Fateh Boutekkouk:
Real-Time Embedded Systems Scheduling Optimization: A Review on Bio-Inspired Approaches. *Int. J. Appl. Evol. Comput.* 12(1): 43-73 (2021)

Fateh Boutekkouk:
Application of a Fuzzy MCDM Method to Select the Best Operating System for an Efficient Security-Aware Design of Embedded Systems. *Int. J. Appl. Evol. Comput.* 12(3): 1-20 (2021)

Fateh Boutekkouk:
AI-Based Methods to Resolve Real-Time Scheduling for Embedded Systems: A Review. *Int. J. Cogn. Informatics Nat. Intell.* 15(4): 1-44 (2021)

Fateh Boutekkouk:

Digital Color Image Processing Using Intuitionistic Fuzzy Hypergraphs. *Int. J. Comput. Vis. Image Process.* 11(3): 21-40 (2021)

Fateh Boutekkouk:

Architecture Description Languages Taxonomies Review: A Special Focus on Self-Adaptive Distributed Embedded Systems. *Int. J. Technol. Diffusion* 12(1): 53-74 (2021)

Rima Boumaza, Fateh Boutekkouk:

Intellectual Properties Integration: The Past, the Present, and the Future. *Int. J. Technol. Diffusion* 12(2): 32-45 (2021)

Fateh Boutekkouk, Narimane Sahel:

Color Image Processing Under Uncertainty. *Int. J. Technol. Diffusion* 12(2): 46-67 (2021)

Saliha Lakhdari, Fateh Boutekkouk:

Optimization Trends for Wireless Network On-Chip: A Survey. *Int. J. Wirel. Networks Broadband Technol.* 10(1): 1-31 (2021)

Fateh Boutekkouk:

Adaptive embedded systems: a systematic review. *Int. J. Auton. Adapt. Commun. Syst.* 13(1): 55-83 (2020)

Ridha Mehalaine, Fateh Boutekkouk:

A New Intelligent Biologically-Inspired Model for Fault Tolerance in Distributed Embedded Systems. *Int. J. Embed. Real Time Commun. Syst.* 11(3): 22-47 (2020)

Habib Chawki Touati, Fateh Boutekkouk:

Reliable Weighted Globally Congestion Aware Routing for Network on Chip. *Int. J. Embed. Real Time Commun. Syst.* 11(3): 48-66 (2020)

Habib Chawki Touati, Fateh Boutekkouk:

Reliable routing schemes in 3D network on chip. *Int. J. Embed. Syst.* 12(1): 39-61 (2020)

Ridha Mehalaine, Fateh Boutekkouk:

Energy Consumption Reduction in Real Time Multiprocessor Embedded Systems with Uncertain Data. *CSOC (2) 2020*: 46-55

Amina Zerdani, Fateh Boutekkouk, Lakhdar Dourdour:

Formal Specification of On-Chip Communications State Of The Art. *ICIST 2020*: 35:1-35:5 2019

Fateh Boutekkouk:

Embedded systems codesign under artificial intelligence perspective: a review. *Int. J. Ad Hoc Ubiquitous Comput.* 32(4): 257-269 (2019)

Fateh Boutekkouk:

Real Time Scheduling Optimization. *J. Inf. Technol. Res.* 12(4): 132-152 (2019) 2018

Fateh Boutekkouk:

Formal Specification and Verification of Communication in Network-On-Chip: An Overview. *Int. J. Recent Contributions Eng. Sci. IT* 6(4): 15-31 (2018)

Zina Mecibah, Fateh Boutekkouk:

Towards Requirements Engineering Process for Self-adaptive Embedded Systems. *CSOS (1) 2018*: 338-345

Habib Chawki Touati, Fateh Boutekkouk:

FACARS: A novel fully adaptive congestion aware routing scheme for network on chip. *MECO 2018*: 1-6

Ramissa Djouani, Karim Djouani, Fateh Boutekkouk, Roumisa Sahbi:

A Security Proposal for IoT integrated with SDN and Cloud. *WINCOM 2018*: 1-5

Djalila Belkebir, Fateh Boutekkouk:

Two-steps into energy consumption optimisation due to the mapping of multimedia application to network on chip architecture. *Int. J. Intell. Syst. Technol. Appl.* 15(4): 353-378 (2016)

Fateh Boutekkouk, Soumia Oubadi:

Real Time Tasks Scheduling Optimization Using Quantum Inspired Genetic Algorithms. *CSOC (1) 2016*: 69-80

Ridha Mehalaine, Fateh Boutekkouk:
Fuzzy Energy Aware Real Time Scheduling Targeting Mono-processor Embedded Architectures. CSOC (1) 2016: 81-91

Djalila Belkebir, Fateh Boutekkouk:
Quantum Evolutionary Cellular Automata Mapping Optimization Technique Targeting Regular Network on Chip. CSOC (3) 2016: 129-140

Fateh Boutekkouk:
A Cellular Automaton Based Approach for Real Time Embedded Systems Scheduling Problem Resolution. CSOC (1) 2015: 13-22

Fateh Boutekkouk, Fatima Taibi, Khawla Meziani:
A Hybrid Approach to Extend the Life Time of Heterogeneous Wireless Sensor Networks. EUSPN/ICTH 2015: 136-141

Fateh Boutekkouk, Zakaria Tolba, Mustapha Okab:
Automatic Interface Generation between Incompatible Intellectual Properties (IPs) from UML Models. ACC (2) 2011: 40-47
2010

Fateh Boutekkouk, Mohamed Benmohammed:
Using UML as a Front-end for StreamIt Programs Verification and Generation. J. Multim. 5(5): 501-513 (2010)

Fateh Boutekkouk:
Rewriting Logic Based Performance Estimation of Embedded Systems. ASMTA 2010: 117-129

Fateh Boutekkouk, Mohamed Benmohammed, Sébastien Bilavarn, Michel Auguin:
UML2.0 Profiles for Embedded Systems and Systems On a Chip (SOCs). J. Object Technol. 8(1): 135-157 (2009)

Fateh Boutekkouk, Mohamed Benmohammed, Sébastien Bilavarn, Michel Auguin:
UML for Modelling and Performance Estimation of Embedded Systems. J. Object Technol. 8(2): 95-118 (2009)

Fateh Boutekkouk, Mohamed Benmohammed:
UML Modeling and Formal Verification of Control/Data Driven Embedded Systems. ICECCS 2009: 311-316

Fateh Boutekkouk, Sébastien Bilavarn, Michel Auguin, Mohammed Benmohammed:
UML profile for estimating application Worst Case Execution Time on System-on-Chip. SoC 2008: 1-6

Interests and Qualifications

- **Interests:** formal specification and verification of software, embedded systems design