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| KIM PHUC TRAN | Phone: (+33)320258960 |
| Associate Professor | Email: kim-phuc.tran@ensait.fr |
| Automation and Industrial Informatics | [Google Scholar](https://scholar.google.fr/citations?user=uGv7zzQAAAAJ&hl=en) |
| ENSAIT & GEMTEX | [ResearchGate](https://www.researchgate.net/profile/Kim_Phuc_Tran) |
| 2 Allée Louise et Victor Champier, BP 30329 | [ORCID](https://orcid.org/0000-0002-6005-1497) |
| 59056 Roubaix Cedex 01, France |  |

**EDUCATION**

**Ph.D. degree** in **Automation and Applied Informatics**, University of Nantes, France

Thesis topic: Monitoring of mixture type processes

Period: 4/2014 – 9/2016

**Engineer and Master** degrees in Manufacturing Automation at the Program of Excellence

Engineer between Vietnam and France (PFIEV), University of Science and Technology - The

University of Da Nang, Vietnam

Thesis topic: Cybersecurity for Industrial Control Systems: SCADA, PLC, and HMI

Period: 9/2004-7/2009

**ACADEMIC POSITIONS**

09/2018-: Associate Professor in Automation and Industrial Informatics at ENSAIT & GEMTEX

04/2018-05/2018: Visiting Researcher Scholar at the University of Liège, Belgium.

12/2017-08/2018: Postdoctoral researcher in the project “Production optimization using data mining and artificial intelligence” at LMBA, UMR CNRS 6205, Vannes, France.

12/2016-11/2017: Postdoctoral researcher in the project “Predictive maintenance for wind turbines using artificial intelligence” at GIPSA-Lab, UMR CNRS 5216, Saint-Martin-d’Hères, France.

6/2016-7/2016: Visiting Researcher Scholar with DAAD Research Grants at Helmut-Schmidt University, Hamburg, Germany.

**QUALIFICATIONS AND CERTIFICATES**

01/2017: Qualified functions of Associate Professor in Computer Engineering, Automation and Signal Processing (section 61) and Applied Mathematics and Mathematical Applications (section 26) N° de qualification: 17261304997.

**EXPERTISE**

Collaborative Research Actions program, supported by the French Community of Belgium

**TEACHING**

Machine learning and Python, Information Systems, Supply Chain and Logistics Optimization

**RESEARCH INTERESTS**

Data Science, Real-time Anomaly Detection for Industrial Big Data, Decision Support System,

Optimizing Complex Manufacturing Operations using Multi-Agent Reinforcement Learning and Big

Data, Smart healthcare systems, Big Data Analytics

**ACADEMIC RESPONSIBILITIES**

Coordinator for projects of the International Semester in ENSAIT

**CONGRESS ORGANIZATION**

1. Program Chair of the ISSAT International Conference on Data Science in Business, Finance

and Industry (DSBFI 2019)

1. Member of the Organizing Committee of the 7th Conference on Information Technology and Its Applications (CITA 2018)

**PEER-REVIEWED PUBLICATIONS (SELECTED)**

1. K.P. Tran, P. Castagliola, G. Celano. (2015), “Monitoring the ratio of two normal variables using

Run rules type control charts”, International Journal of Production Research, 54(6): 1670-1688.

1. K.P. Tran, P. Castagliola, G. Celano. (2015), “Monitoring the ratio of two normal variables usingEWMA type control charts”, Quality and Reliability Engineering International, 32(5):1853-1869
2. K.P. Tran, S. Knoth (2017), “Steady-state ARL analysis of ARL-unbiased EWMA-RZ control

Chart monitoring the ratio of two normal variables”, Quality and Reliability Engineering

International, In press, DOI: 10.1002/qre.2259.

1. K.P. Tran, P. Castagliola, G. Celano. (2016), “Monitoring the Ratio of Population Means of a

Bivariate Normal distribution using CUSUM Type Control Charts”, Statistical Papers, 59(1), 387-413.

1. P.H. Tran, K.P. Tran. (2016), “The Efficiency of CUSUM schemes for monitoring the Coefficient ofVariation”, Applied Stochastic Models in Business and Industry, 32(6), 870-881.
2. K.P. Tran, P. Castagliola, G. Celano. (2016), “The Performance of the Shewhart-RZ Control Chart in the Presence of Measurement Error”, International Journal of Production Research, 54(24), 7504-7522.
3. K.P. Tran. (2017), “Run Rules median control charts for monitoring process mean in manufacturing”, Quality and Reliability Engineering International, 2017;33: 2437–2450.
4. K.P. Tran. (2018), “Designing of Run Rules t control charts for Monitoring Changes in the Process Mean”, Chemometrics and Intelligent Laboratory Systems, 174, 85-93.
5. H.D. Nguyen, Q.T. Nguyen, K.P. Tran, Ho P.D (2019),” On the Performance of VSI Shewhart control chart for monitoring the Coefficient of Variation in the Presence of Measurement Errors”, Journal of Advanced Manufacturing Technology, In press, DOI: 10.1007/s00170-019-03352-7.
6. K.P. Tran, P. Castagliola and N. Balakrishnan (2017), "On the performance of Shewhart median chart in the presence of measurement errors", Quality and Reliability Engineering International. 33(5), 1019-1029
7. P. Castagliola, K.P. Tran, G. Celano, A.C. Rakitzis, and P.E. Maravelakis (2019). An EWMA-type sign chart with exact run length properties. Journal of Quality Technology, 51(1), 51-63.
8. V. Giner-Boscha, K.P. Tran, P. Castagliola, M.B.C Khoo (2019), “An EWMA Control Chart for the Multivariate Coefficient of Variation”, Quality and Reliability Engineering International, In press, DOI: 10.1002/qre.2459.

**REFEREED PROCEEDINGS (SELECTED)**

1. K.P. Tran, P. Castagliola and G. Celano. (2016), “The Efficiency of the 4-out-of-5 Runs Rules Scheme for monitoring the Ratio of Population Means of a Bivariate Normal distribution”, Proceedings of the 22nd ISSAT International Conference on Reliability and Quality in Design, page 148-152, ISSN:9786-0-9910576-3-4, Los Angeles, CA, USA, August 2016.
2. V.V. Trinh, K.P. Tran, and A.T. Mai. (2017), “Anomaly Detection in Wireless Sensor Networks via Support Vector Data Description with Mahalanobis Kernels and Discriminative Adjustment”, 3th IEEE Conference on Information and Computer Science, Hanoi, Vietnam, November 24-25, 2017.
3. V.V. Trinh, K.P. Tran, and T.H. Truong. (2017), “Data-driven anomaly detection method for Wireless Sensor Networks”, IEEE International Conference on Advanced Technologies for Communications, Quy Nhon, Vietnam, October 18-20, 2017.
4. P.H. Tran, K.P. Tran and T.H. Truong (2018), “Real Time Data-Driven approaches for Credit Card Fraud Detection”, 2018 International Conference on E-Business and Applications (ICEBA 2018), Da Nang, Vietnam, February 23-25, 2018.
5. Q.T. Nguyen, K.P. Tran, P. Castagliola, T.T. Huong, M.K. Nguyen, S. Lardjane. Nested One-Class Support Vector Machines for Network Intrusion Detection, Seventh IEEE International Conference on Communications and Electronics (ICCE), Hue, Vietnam, 18-20 July 2018
6. H.D. Nguyen, K.P.Tran, S. Thomassey. “Anomaly detection using Long Short Term Memory Networks and its applications in Supply Chain Management”, 9th IFAC Conference on Manufacturing Modelling, Management and Control, Berlin, Germany, August 28-30, 2019
7. H.D. Nguyen, K.P.Tran. “Industrial Internet of Things, Big Data, and Artificial Intelligence in a Smart Factory: a survey and perspective”, ISSAT International Conference on Data Science in Business, Finance and Industry (DSBFI 2019), Danang, Vietnam, July 3-5, 2019
8. H.D. Nguyen, K.P.Tran. “Wearable Sensor Data Based Human Activity Recognition using Machine Learning: A new approach”, ISSAT International Conference on Data Science in Business, Finance and Industry (DSBFI 2019), Danang, Vietnam, July 3-5,2019

**INVITED TALK**

K.P. Tran (2018), “Deep learning and computer vision for quality control: a perspective”,

International Symposium on Business and Industrial Statistics, Greece, 4-6 July 2018.

**PEER REVIEW**

Reviewer for Computers & Industrial Engineering, Symmetry, Quality and Reliability Engineering

International, Communications in Statistics-Theory and Methods, Computational Statistics and

Data Analysis, International Journal of Reliability, Quality, and Safety Engineering.