Olarik Surinta, PhD

Assistant Professor
Intelligent Autonomous Systems (IAS)
Multi-Agent Intelligent Simulation Laboratory (MISL)
Department of Information Technology, Faculty of Informatics
Mahasarakham University, Thailand
website: http://olarik.it.msu.ac.th/

Date of Birth October 1, 1978

Current Position
Lecturer at Mahasarakham University
Research group: Multi-Agent Intelligent Simulation Laboratory (MISL)
Department of Information Technology, Faculty of Informatics
Mahasarakham University, Thailand

Research Interests Handwritten character recognition, Artificial intelligence, Machine learning, Computer vision, Image processing

Education

PhD of artificial intelligence, 2016
Dissertation: Multi-Script Handwritten Character Recognition Using Feature Descriptors and Machine Learning
website: http://www.ai.rug.nl/~mrolarik/dissertation.php
Research institute: Artificial Intelligence and Cognitive Engineering (ALICE)
Research group: Autonomous Perceptive Systems (APS)
University of Groningen, The Netherlands

MSc in Information Technology, 2003
King Mongkut's Institute of Technology North Bangkok, Bangkok, Thailand
Major: Information Technology
Master's Thesis: Handwritten Thai Character Recognition

BBA in Information Systems, 1999
Faculty of Business Administration, Department of Information System
Rajamangala Institute of Technology, Thailand

Experience
2004 – Current
Lecturer, Faculty of Informatics, Mahasarakham University, Thailand
Teaching in bachelor degree of Information Technology (IT)

Book Web Development (การพัฒนาเว็บไซต์), ISBN: 9741954395, 2006

Selected Publications

- **O.Surinta** and K. Bunluewong, "Handwritten Character Recognition Using k-Nearest Neighbors Classifier - A Survey", in Journal of Science and Technology, 36(2017), pp. 117-129.
- P. Pawara, E. Okafor, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, “Comparing Local Descriptors and Bags of Visual Words to Deep Convolutional Neural Networks for Plant

Recognition" in Pattern Recognition Applications and Methods (ICPRAM), The 6th International Conference on, 2017, pp. 479-486.

- E. Okafor, P. Pawara, F. Karaaba, **O. Surinta**, V. Codreanu, L.R.B. Schomaker and M.A. Wiering, "Comparative Study Between Deep Learning and Bag of Visual Words for Wild-Animal Recognition," in Computational Intelligence (SSCI), IEEE Symposium Series on, 2016, pp. 1-8.
- F. Karaaba, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, "Robust Face Identification with Small Sample Sizes Using Bag of Words and Histogram of Oriented Gradients," in Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAAP), The 10th International Joint Conference on, 2016, pp. 582-589.
- F. Karaaba, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, "Robust Face Recognition by Computing Distances From Multiple Histograms of Oriented Gradients," in Computational Intelligence in Biometrics and Identity Management (IEEE CIBIM), IEEE Symposium Series on, 2015, pp. 203-209
- **O. Surinta**, M.F. Karaaba, T.K. Mishra, L.R.B. Schomaker and M.A. Wiering, "Recognizing Handwritten Characters with Local Descriptors and Bags of Visual Words," in Engineering Applications of Neural Networks (EANN), The 16th International Conference on, 2015, pp. 255-264.
- **O. Surinta**, M.F. Karaaba, L.R.B. Schomaker and M.A. Wiering, "Recognition of handwritten characters using local gradient feature descriptors," in Engineering Applications of Artificial Intelligence, (45)2015, pp. 405-414.
- F. Karaaba, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, "In-Plane Rotational Alignment of Faces by Eye and Eye-Pair Detection," in Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAAP), The 10th International Joint Conference on, 2015, pp. 392-399.
- V. Codreanu, B. Dröge, D. Williams, B. Yasar, P. Yang, B. Liu, F. Dong, **O. Surinta**, L.R.B Schomaker, J.B.T.M. Roerdink, and M.A. Wiering, "Evaluating automatically parallelized versions of the Support Vector Machine", Concurrency and Computation: Practice and Experience, 2014, pp. 1-21.
- **O. Surinta**, M. Holtkamp, M.F. Karaaba, JP. van Oosten, L.R.B. Schomaker and M.A. Wiering, "A* Path Planning for Line Segmentation of Handwritten Documents," in Frontiers in Handwriting Recognition (ICFHR), The 14th International Conference on, 2014. pp. 175-180.
- **O. Surinta**, L.R.B. Schomaker, and M.A. Wiering, "A comparison of feature and pixel-based methods for recognizing handwritten Bangla digits," in Document Analysis and Recognition (ICDAR), The 12 International Conference on, 2013, pp. 165-169.
- **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, "Handwritten Character Classification Using the Hotspot Feature Extraction Technique," in Pattern Recognition Applications and Methods (ICPRAM), The 1st International Conference on, 2012. pp. 261-264.

ดร.โอฬาริก สุรินต๊ะ

ผู้ช่วยศาสตราจารย์
หน่วยวิจัยมัลติเอเจนท์ ระบบอัจฉริยะ และการจำลองสถานการณ์ (MISL)
สาขาวิชาเทคโนโลยีสารสนเทศ คณะวิทยาการสารสนเทศ
มหาวิทยาลัยมหาสารคาม
เว็บไซต์: http://olarik.it.msu.ac.th/

วันเกิด 1 ตุลาคม 2521

ตำแหน่งปัจจุบัน
อาจารย์ประจำสาขาวิชาเทคโนโลยีสารสนเทศ คณะวิทยาการสารสนเทศ
หน่วยวิจัย: หน่วยวิจัยมัลติเอเจนท์ ระบบอัจฉริยะ และการจำลองสถานการณ์
Multi-Agent Intelligent Simulation Laboratory (MISL)
สาขาวิชาเทคโนโลยีสารสนเทศ คณะวิทยาการสารสนเทศ
มหาวิทยาลัยมหาสารคาม

งานวิจัยที่ให้ความสนใจ
Handwritten recognition, Artificial intelligence, Machine learning, Computer vision
การรู้จำตัวอักษรลายมือเขียน ปัญญาประดิษฐ์ การเรียนรู้ของเครื่องจักร และคอมพิวเตอร์วิทัศน์

การศึกษา
PhD of artificial intelligence, 2016
Dissertation: Multi-Script Handwritten Character Recognition Using Feature Descriptors and Machine Learning
website: http://www.ai.rug.nl/~mrolarik/dissertation.php
Research institute: Artificial Intelligence and Cognitive Engineering (ALICE)
Research group: Autonomous Perceptive Systems (APS)
University of Groningen, The Netherlands
ปริญญาเอก สาขาปัญญาประดิษฐ์ 2559
มหาวิทยาลัยโครนิงเง่น ประเทศเนเธอแลนด์

MSc in Information Technology, 2003
King Mongkut's Institute of Technology North Bangkok, Bangkok, Thailand
Major: Information Technology
Master's Thesis: Handwritten Thai Character Recognition
ปริญญาโท สาขาเทคโนโลยีสารสนเทศ 2546
สถาบันเทคโนโลยีพระจอมเกล้า พระนครเหนือ

BBA in Information Systems, 1999
Faculty of Business Administration, Department of Information System
Rajamangala Institute of Technology, Thailand
ปริญญาตรี บริหารธุรกิจ สาขาวิชาระบบสารสนเทศ 2542
สถาบันเทคโนโลยีราชมงคล ธัญบุรี

ประสบการณ์
2547 – ปัจจุบัน
อาจารย์ประจำสาขาวิชาเทคโนโลยีสารสนเทศ คณะวิทยาการสารสนเทศ
มหาวิทยาลัยมหาสารคาม

สอนในระดับปริญญาตรี และปริญญาโท

หนังสือ Web Development (การพัฒนาเว็บไซต์), ISBN: 9741954395, 2006

ส่วนหนึ่งของงานวิจัยที่ได้รับการตีพิมพ์

- O.Surinta and K. Bunluewong, "Handwritten Character Recognition Using k-Nearest Neighbors Classifier - A Survey", in Journal of Science and Technology, 36(2017), pp. 117-129.
- P. Pawara, E. Okafor, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, “Comparing Local Descriptors and Bags of Visual Words to Deep Convolutional Neural Networks for Plant Recognition” in Pattern Recognition Applications and Methods (ICPRAM), The 6th International Conference on, 2017, pp. 479-486.
- E. Okafor, P. Pawara, F. Karaaba, **O. Surinta**, V. Codreanu, L.R.B. Schomaker and M.A. Wiering, “Comparative Study Between Deep Learning and Bag of Visual Words for Wild-Animal Recognition,” in Computational Intelligence (SSCI), IEEE Symposium Series on, 2016, pp. 1-8.
- F. Karaaba, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, “Robust Face Identification with Small Sample Sizes Using Bag of Words and Histogram of Oriented Gradients,” in Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAAP), The 10th International Joint Conference on, 2016, pp. 582-589.
- F. Karaaba, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, “Robust Face Recognition by Computing Distances From Multiple Histograms of Oriented Gradients,” in Computational Intelligence in Biometrics and Identity Management (IEEE CIBIM), IEEE Symposium Series on, 2015, pp. 203-209
- **O. Surinta**, M.F. Karaaba, T.K. Mishra, L.R.B. Schomaker and M.A. Wiering, “Recognizing Handwritten Characters with Local Descriptors and Bags of Visual Words,” in Engineering Applications of Neural Networks (EANN), The 16th International Conference on, 2015, pp. 255-264.
- **O. Surinta**, M.F. Karaaba, L.R.B. Schomaker and M.A. Wiering, “Recognition of handwritten characters using local gradient feature descriptors,” in Engineering Applications of Artificial Intelligence, (45)2015, pp. 405-414.
- F. Karaaba, **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, “In-Plane Rotational Alignment of Faces by Eye and Eye-Pair Detection,” in Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAAP), The 10th International Joint Conference on, 2015, pp. 392-399.
- V. Codreanu, B. Dröge, D. Williams, B. Yasar, P. Yang, B. Liu, F. Dong, **O. Surinta**, L.R.B Schomaker, J.B.T.M. Roerdink, and M.A. Wiering, “Evaluating automatically parallelized versions of the Support Vector Machine”, Concurrency and Computation: Practice and Experience, 2014, pp. 1-21.
- **O. Surinta**, M. Holtkamp, M.F. Karaaba, JP. van Oosten, L.R.B. Schomaker and M.A. Wiering, “A* Path Planning for Line Segmentation of Handwritten Documents,” in Frontiers in

Handwriting Recognition (ICFHR), The 14th International Conference on, 2014. pp. 175-180.

- **O. Surinta**, L.R.B. Schomaker, and M.A. Wiering, “A comparison of feature and pixel-based methods for recognizing handwritten Bangla digits,” in Document Analysis and Recognition (ICDAR), The 12 International Conference on, 2013, pp. 165-169.
- **O. Surinta**, L.R.B. Schomaker and M.A. Wiering, “Handwritten Character Classification Using the Hotspot Feature Extraction Technique,” in Pattern Recognition Applications and Methods (ICPRAM), The 1st International Conference on, 2012. pp. 261-264.