Amaury Lendasse

Department Chair, Information Science Technology
14004 University Boulevard, #351, College of Engineering
University of Houston, Sugar Land, TX 77479 email: alendass@central.uh.edu
Cell: +1-319-512-0408
Google Scholar: https://tinyurl.com/y58ysvy6
LinkedIn: https://www.linkedin.com/in/amaurylendasse/

1. Education

PhD, Applied Mathematics, Université catholique de Louvain (October 2003)
MS, Control Theory (EE), Université catholique de Louvain (June 1997)
MS, Mechanical Engineering, Université catholique de Louvain (June 1996)
BS, Mechanical Engineering, Université catholique de Louvain (June 1993)

2. Employment

Dept. Chair, Information Science Technology, University of Houston, Houston, TX (since Oct 2020)
Full Professor, University of Houston, Houston, TX (Since September 2022)
Associate Professor, University of Houston, Houston, TX (September 2018 – August 2022)
Director of Graduate Studies, University of Iowa, Iowa City, IA (August 2015 – July 2018)
Associate Professor and Group Leader, University of Iowa, Iowa City, IA (August 2014 - July 2018)
Full Research Professor (with Tenure), Univ. of the Basque Country, Spain (June 2013 - July 2014)
Group Leader and Professor *pro tempore*, Aalto University, Finland (April 2007 - July 2014)
Research Scientist, Helsinki University of Technology, Finland (February 2004 - March 2007)
Post-Doctoral Researcher, University of Memphis, TN (October 2003 - December 2003)
Teaching/Research Assistant, Université catholique de Louvain, Belgium (August 1998 - October 2003)

3. Honors and Awards

International Conference on Extreme Learning Machines, Yantai, China, 4-7 October 2017: **Pioneer Award** (presented) to Amaury Lendasse for the contribution in Machine Learning.
Second most popular article published in IEEEXplore in 2017.
Best Paper Award at the NN3 Neural Network Forecasting Competition at the International Joined Conference on Neural Networks 2007 (IJCNN'07), IEEE and INNS. (2007).
Member of the 2020-2021 University of Houston Cougar Chairs Leadership Academy.

4. Research Areas

Data Science, Big Data Analytics, Machine Learning, Information Visualization, Informatics, Data Mining, Time Series Prediction, Feature/Variable Selection, Missing Values (Incomplete Data).

5. Research Funding Sources: more than 3.5 million US$ of past industrial projects and grants

National Institutes of Health (P20), Transamerica (Industrial collaboration), DASH Analytics LLC (Industrial cooperation), Arcada Foundation, ITS at UIOWA, VPR office at UIOWA, TEKES (the Finnish Funding Agency for Technology and Innovation), European Union.
I am the co-PI of a $10M grant that just got funded by the Department of Transportation.

6. Ten most important Publications

1. Miche, Y., Sorjamaa, A., Bas, P., Simula, O., Jutten, C., Lendasse, A. (2010). OP-ELM: Optimally pruned extreme learning machine. *IEEE Transactions on Neural Networks, 21*(1), 158-162.
2. Hu, R., Ratner, E., Stewart D., Björk, K., Lendasse, A. (2020), A modified Lanczos Algorithm for fast regularization of extreme learning machines, *Neurocomputing*, Volume 414, 172-181, https://doi.org/10.1016/j.neucom.2020.07.015.
3. Akusok, A., Lendasse, A., Corona, F., Nian, R., Miche, Y. (2013). ELMVIS: a nonlinear visualization technique using random permutations and ELMs. *IEEE intelligent systems, 28*(6), 41–46.
4. Cambria, E. et al. (2013). Extreme learning machines. *IEEE Intelligent Systems, 28*(6), 30-59.
5. Sorjamaa, A., Hao, J., Reyhani, N., Ji, Y., Lendasse, A. (2007). Methodology for long-term prediction of time series. *Neurocomputing, 70*(16-18), 2861-2869.
6. Rossi, F., Lendasse, A., François, D., Wertz, V., Verleysen, M. (2006). Mutual information for the selection of relevant variables in spectrometric nonlinear modelling. *Chemometrics and Intelligent Laboratory Systems, 80*(2), 215-226.
7. Akusok, A., Bjork, K.-M., Miche, Y., Lendasse, A. (2015). High-Performance Extreme Learning Machines: A Complete Toolbox for Big Data Applications. *Access, IEEE, 3*, 1011- 1025.
8. Akusok, A., Miche, Y., Björk, K.-M., Nian, R., Lauren, P., Lendasse, A. (2016). ELMVIS+: Fast Nonlinear Visualization Technique based on Cosine Distance and Extreme Learning Machines. *Neurocomputing, 205*, 247 - 263.
9. Akusok, A., Miche, Y., Karhunen, J., Bjork, K.-M., Nian, R., Lendasse, A. (2015). Arbitrary Category Classification of Websites Based on Image Content. *Computational Intelligence Magazine, IEEE, 10*(2), 30-41.
10. Eirola, E., Doquire, G., Verleysen, M., Lendasse, A. (2013). Distance estimation in numerical data sets with missing values. *Information Sciences, 240*, 115-128.

7. Synergetic Activities

Research collaborators:

- On Machine Learning projects: **Prof. Christian Jutten**, Professor at Université Joseph Fourier in France, **Guangbin Huang**, Professor at the Nanyang Technological University in Singapore, **Erkki Oja**, Aalto Distinguished Professor in Finland, **Panagiotis Papapetrou**, Associate Professor at Stockholm University in Sweden, **Ignacio Rojas Ruiz**, Professor in computer Science at University of Granada in Spain, **Fabrice Rossi**, Professor at the Université Paris 1-Sorbonne in France.
- Graduate Advisors: **Michel Verleysen**, Professor and Dean of Engineering at the Univ. catholique de Louvain (Belgium) and **Vincent Wertz**, Professor at the Univ. catholique de Louvain (Belgium).
- Graduate and postgraduate advisees: Venous Roshdibenam, Renjie Hu, Andrey Gritsenko, Anton Akusok, Emil Eirola, Dusan Sovilj, Qi Yu, Yoan Miche, Antti Sorjamaa, Elia Liitiäinen, Federico Montesino Pouzols.

8. Teaching Activities

At the **University of Houston**:

- Information Visualization (CIS 3320)

  For Fall 2020, summary of the course evaluation (College average in parentheses):
  The overall teaching effectiveness of this instructor: **4.68** (3.99)
  The overall quality of this course: **4.5** (3.95)
  This instructor's availability for individual assistance: **4.43** (4.09)
  This instructor's demonstration of respect for students: **4.71** (4.29)
- Information Systems Application Development (CIS 2348)

  For Fall 2020, summary of the course evaluation (College average in parentheses):
  The overall teaching effectiveness of this instructor: **4.12** (3.99)
  The overall quality of this course: **4.00** (3.95)

This instructor's availability for individual assistance: **4.34** (4.09)
This instructor's demonstration of respect for students: **4.43** (4.29)

- Info Tech Hardware & Systems Software (CIS 2332)
- Decision Informatics (CIS 4320)
- Selected Topics Comp Info Syst (CIS 4397)
- Selected Topics Comp Info Syst (CIS 6397)

At the **University of Iowa**:

- Big Data Analytics (IE:4172)
- Stochastic Modeling (IE:3610)
- Graduate Seminar in Industrial Engineering (IE:5000)
- Information Visualization (MSCI:6140) for the Master's in Business Analytics at the Tippie College of Business, UIOWA.

In Finland **at Aalto University**:

- Machine Learning: Basic Principles (T-61.3050), 2012-2013
- Information visualization (T-61.5010), 2010-2012
- Machine Learning for Corporate Finance (T-61.9910), 2011

9. Citations and h-index (according to Google Scholar):

https://tinyurl.com/y58ysvy6

	ALL	Since 2018
Citations	**9,763**	4,122
h-index	**46**	33
i10-index	**157**	90

10. Services to Profession/Academic Discipline:

Department and College Service

1. Department of Information Science Technology, College of Technology, University of Houston, member of the Departmental P&T Committee, August 2018- Jan 2021.
2. Department of Information Science Technology, College of Technology, University of Houston, Chair of the Departmental P&T Committee, September 2019- May 2020.
3. College of Technology, University of Houston, member of the College P&T Committee, August 2018- December 2018.
4. Department of Information Science Technology, College of Technology, University of Houston, Chair of Search Committee for the CIS Program, Jan 2019- May 2019.
5. Department of Information Science Technology, College of Technology, University of Houston, Program Coordinator for the Data Science Courses in the ILT Department, January 2020- January 2021.
6. Department of Information Science Technology, Department of Information Science Technology, College of Technology, Department Chair since Jan 2021.

University Service

1. University of Houston, Faculty Senator since August 2020.
2. University of Houston, Member of the Faculty Affairs Committee since August 2020.

3. University of Houston, Member of the New Normal Task Force, April 15, 2020-December 31, 2020.
4. University of Houston, Member of the Micro-credentialing subcommittee of the New Normal Task Force, April 15, 2020-August 31, 2020.
5. University of Houston, Member of the Electronic Device subcommittee of the New Normal Task Force, April 15, 2020-August 31, 2020.
6. University of Houston, Member of the Micro-credentialing Committee since September 2020.
7. University of Houston, Member of the Graduate and Professional Studies Committee (GPSC) Committee, August 2020-April 2021.
8. University of Houston, Member of the Subcommittee Strategy #5 (Provide working professionals with top quality programs to upgrade their skills and help create a robust economy) of the UH strategic plan implementation Committee Goal #1 (Student Success).
9. University of Houston, Member of the Faculty Senate Website Subcommittee since February 2021.

Service to the Profession/Academic Discipline

1. Reviewer for more than 35 international journals.
2. Associate Editor, Neurocomputing. (January 31, 2019 – May 2021).
3. Reviewer for the National Science Centre (Narodowe Centrum Nauki – NCN, Poland).
4. Associate Editor, Journal of The Franklin Institute. (March 2016 – January 2018).
5. Program Chair, International Symposium on Extreme Learning Machine (ELM12 to 16).
6. Organizing Chair, International Symposium on Extreme Learning Machine (ELM17 to 21).
7. Organizing Chair, ITISE 2018 (International conference on Time Series and Forecasting)
8. Committee Member, International Conference on Natural Computing (NC'07), (January 2007 - December 2015).
9. Organizing Chair, International Conference on Artificial Neural Networks (ICANN'11), (January 2011 - December 2011).
10. Publicity Chair, International Symposium on Extreme Learning Machines (ELM'11), (January 2011 - December 2011).
11. Workshops Chair, International Joint Conference on Neural Networks (WCCI'10/ IJCNN'10), (January 2010 - December 2010).
12. Committee Member for more than 25 international conferences.

11. Grants, Contracts & Proposals

I have divided these funded projects in two categories: a short summary of my funded projects during my 12 years in Finland, and 7 years in USA.

In Finland (1.2M for largest projects, small projects not included):

(1) Name of the principal investigator and all co-investigators: Risto Ritala, Esa Alhoniemi, Kimmo Konkarikoski, Tuomo Kauranne, Amaury Lendasse and Miki Sirola.
(2) Title of the grant proposal: Nonlinear temporal and spatial forecasting: modeling and uncertainty analysis (NOTES).
(see https://pdfs.semanticscholar.org/2dac/b85c5752d3968e1c1053b81bb0f97f64381a.pdf)
(3) Funding agency: TEKES (the Finnish Funding Agency for Technology and Innovation).
(4) Amount of the grant: 25% of the total $833K.
(5) Time period of the grant: 2006 to 2007.
(6) My role: co-PI, in charge of the project for the Helsinki University of Technology and Process Vision Oy, a private corporation in Helsinki.

(1) Name of the principal investigator and all co-investigators: Risto Ritala, Esa Alhoniemi, Kimmo Konkarikoski, Tuomo Kauranne, Amaury Lendasse and Miki Sirola.
(2) Title of the grant proposal: Nonlinear temporal and spatial forecasting: modeling and uncertainty analysis (Phase II, NOTES-2).
(see https://pdfs.semanticscholar.org/2dac/b85c5752d3968e1c1053b81bb0f97f64381a.pdf)
(3) Funding agency: TEKES (the Finnish Funding Agency for Technology and Innovation).
(4) Amount of the grant: 25% of the total $487K.
(5) Time period of the grant: 2008.
(6) My role: co-PI, in charge of the project for the Helsinki University of Technology and Process Vision Oy, a private corporation in Helsinki.

(1) Name of the principal investigator and all co-investigators: Amaury Lendasse , Satu-Pia Reinikainen, Marja-Liisa Riekkola, Kari Hartonen, Ilppo Vuorinen and Jukka Silén.
(2) Title of the grant proposal: Developing chemometrics with the tools of information sciences (CHESS).
(see https://pdfs.semanticscholar.org/2dac/b85c5752d3968e1c1053b81bb0f97f64381a.pdf).
(3) Funding agency: TEKES (the Finnish Funding Agency for Technology and Innovation).
(4) Amount of the grant: 25% of the total $500K.
(5) Time period of the grant: 2008.
(6) My role: PI, in charge of the project for the Helsinki University of Technology and Neste Oil Oyj, an oil refining and marketing company located in Espoo, Finland.

(1) Name of the principal investigator and all co-investigators: Joachim Dippner, Amaury Lendasse, Kari Hartonen, Ilppo Vuorinen.
(2) Title of the grant proposal: AMBER - Assessment and Modelling Baltic Ecosystem Response.
(3) Funding agency: European Union.
(4) Amount of the grant: 10% of the total $600K.
(5) Time period of the grant: 2010.
(6) My role: co-PI, in charge of the project for the Helsinki University of Technology.

(1) Name of the principal investigator and all co-investigators: Alexey Kirichenko, Kaj-Mikael Bjork, Amaury Lendasse et al.
(2) Title of the grant proposal: Tivit Future Internet Program" (FI-SHOK).
(3) Funding agency: TEKES (the Finnish Funding Agency for Technology and Innovation).
(4) Amount of the grant: 10% of the total $3M.
(5) Time period of the grant: 2011.
(6) My role: co-PI, in charge of the project for the Helsinki University of Technology and F-Secure Corporation.

(1) Name of the principal investigator and all co-investigators: Alexey Kirichenko, Kaj-Mikael Bjork, Amaury Lendasse et al.
(2) Title of the grant proposal: Tivit Future Internet Program" (FI-SHOK).
(3) Funding agency: TEKES (the Finnish Funding Agency for Technology and Innovation).
(4) Amount of the grant: 10% of the total $5M.
(5) Time period of the grant: 2012 to 2014.
(6) My role: co-PI, in charge of the project for the Helsinki University of Technology and F-Secure Corporation.

In USA at UIOWA and UH: Total of 642K:

(1) Name of the principal investigator and all co-investigators: Gardner, Sue and Rakel, Barbara.
(2) Title of the grant proposal: Center for Advancing Multimorbidity Science: Profiling risk and symptom expression to develop customized therapies for adults with multiple chronic conditions (CAMS).
(3) Funding agency: National Institutes of Health (NIH).
(4) Amount of the grant: 75K of the total $1.9M.
(5) Time period of the grant: 2018-2019.
(6) My role: co-PI, developing the Machine Learning Algorithm and visualization tools for one of the two pilot projects that were accepted. The two pilots were selected among 10 candidates and were part of the **full proposal** accepted by NIH. This center is itself a grant incubator.

(1) Name of the principal investigator and all co-investigators: Mantilla Gutierrez, and Amaury Lendasse.
(2) Title of the grant proposal: Novel Big Data Analytics for Rainfall and Flash-Flood Forecasting.
(3) Funding agency: VPR office at UIOWA.
(4) Amount of the grant: 50% of the total $60K.
(5) Time period of the grant: 2015.
(6) My role: co-PI, developing the Machine Learning Algorithm for that application.

(1) Name of the principal investigator and all co-investigators: Amaury Lendasse.
(2) Title of the grant proposal: Predictive model to improve NPS score.
(3) Funding agency: Transamerica.
(4) Amount of the grant: 100% of the total $50K.
(5) Time period of the grant: 2017 to 2018.
(6) My role: PI, developing the Machine Learning Algorithm for that application together with Transamerica (Cedar Rapids, Iowa).

(1) Name of the principal investigator and all co-investigators: Amaury Lendasse.
(2) Title of the grant proposal: Predictive model for incomplete data, application to medical datasets.

(3) Funding agency: DASH Analytics LLC.
(4) Amount of the grant: 100% of the total $50K.
(5) Time period of the grant: 2018 to 2019.
(6) My role: PI, developing the Machine Learning Algorithm for that application together with DASH Analytics (Iowa City, Iowa).

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(1) Name of the principal investigator and all co-investigators: Amaury Lendasse.
(2) Title of the grant proposal: Analytics for Imprecise and Incomplete Data.
(3) Funding agency: Arcada Foundation.
(4) Amount of the grant: 20% of the total $150K.
(5) Time period of the grant: 2017.
(6) My role: Co-PI, developing the Machine Learning Algorithm for that application, in particular for the incomplete data.

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(1) Name of the principal investigator and all co-investigators: Amaury Lendasse.
(2) Title of the grant proposal: Visualization of Student Outcomes.
(3) Funding agency: ITS at UIOWA.
(4) Amount of the grant: 100% of the total $60K.
(5) Time period of the grant: 2017 to 2018.
(6) My role: PI, developing the Machine Learning Algorithm and visualization tools to predict and monitor students (enrolled in STEM classes) during their Sophomore year.

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(1) Name of the principal investigator and all co-investigators: Amaury Lendasse
(2) Title of the grant proposal: A Census of Young Drivers in Iowa: Analysis of Citations and Convictions.
(3) Funding agency: Iowa Governor's Traffic Safety Bureau (DoT).
(4) Amount of the grant: 50% of the total $37K.
(5) Time period of the grant: 2018 to 2019.
(6) My role: Co-PI, developing Machine Learning Algorithms to predict crash probabilities.

Under Review:

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(1) Name of the principal investigator and all co-investigators: Yunpeng Zhang (PI) and Amaury Lendasse,
(2) Title of the grant proposal: Collaborative Research: CPS: Small: Theorizing Connected Vehicle-Enabled Traffic System Vulnerability Analysis and Strategizing for Cyber Security Enhancement.
(3) Funding agency: National Science Foundation.
(4) Amount of the grant: $315,971.
(5) Time period of the grant: 2023 to 2026.

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(1) Name of the principal investigator and all co-investigators: Lila Carden (PI), Amaury Lendasse, Elizabeth Rodwell, Tony Liao and Hichem Frigui.
(2) Title of the grant proposal: Frameworks: Building a Digital Ecosystem for Training and Development.
(3) Funding agency: National Science Foundation.
(4) Amount of the grant: $2,981,352.
(5) Time period of the grant: 2023 to 2026.

12. Full List of Publications:

Peer-Reviewed Journal Articles (135)

135. Nian, R., Xu, Y., Yuan, Q., Feng, C., & Lendasse, A. (2021). Quantifying Time-Frequency Co-movement Impact of COVID-19 on U.S. and China Stock Market Toward Investor Sentiment Index. Frontiers in public health, 9, 727047.

134. Nian, R., Yuan, Q., He, H., Geng, X., Su, C.; He, B.; Lendasse, A. (2021), The Identification and Prediction in Abundance Variation of Atlantic Cod via Long Short-Term Memory With Periodicity, Time–Frequency Co-movement, and Lead-Lag Effect Across Sea Surface Temperature, Sea Surface Salinity, Catches, and Prey Biomass From 1919 to 2016, Frontiers in Marine Science, 8, 629, https://doi.org/10.3389/fmars.2021.665716

133. Hu, R., Farag, A., Björk, K., Lendasse, A. (2020), Using machine learning to identify top predictors for nurses' willingness to report medication errors, *Array*, Volume 8, https://doi.org/10.1016/j.array.2020.100049.

132. Hu, R., Ratner, E., Stewart D., Björk, K., Lendasse, A. (2020), A modified Lanczos Algorithm for fast regularization of extreme learning machines, *Neurocomputing*, Volume 414, Pages 172-181, https://doi.org/10.1016/j.neucom.2020.07.015.

131. Sun Z., He Y., Gritsenko A., Lendasse A., Baek S. (2020), Embedded spectral descriptors: learning the point-wise correspondence metric via Siamese neural networks
Journal of Computational Design and Engineering 7 (1), 18-29.
https://doi.org/10.1093/jcde/qwaa003

130. Xiao, S., Hu, R., Li, Z. et al. (2020), A machine-learning-enhanced hierarchical multiscale method for bridging from molecular dynamics to continua. Neural Comput & Applic, 32, 14359–14373. https://doi.org/10.1007/s00521-019-04480-7

129. Hu, R., Ratner, K., Ratner, R., Miche, Y., Björk, KM., Lendasse, A. (2019). ELM-SOM+: A continuous mapping for visualization, Neurocomputing 365, 147-156.

128. Song, Y., He, B., Zhao, Y., Li, G., Sha, Q., Shen, Y., Yan, T., Nian, R., Lendasse, A. (2019). Segmentation of Sidescan Sonar Imagery Using Markov Random Fields and Extreme Learning Machine. *IEEE JOURNAL OF OCEANIC ENGINEERING, 44*(2), 502-513.

127. Miche, Y., Ren, W., Oliver, I., Holtmanns, S., Lendasse, A. (2019). A Framework for Privacy Quantification: Measuring the Impact of Privacy Techniques Through Mutual Information, Distance Mapping, and Machine Learning. *Cognitive Computation, 11*(2), 241-261. http://dx.doi.org/10.1007/s12559-018-9604-7.

126. Dogan, M. V., Simons, R. L., Beach, S., Lendasse, A., Philibert, R. A. (2018). A Next-Generation Artificial Intelligence-Based Integrated Genetic-Epigenetic Prediction of 5-Year Risk for Coronary Heart Disease. *Circulation, 138*, A16592-A16592.

125. Roshan, S., Miche, Y., Akusok, A., Lendasse, A. (2018). Adaptive and online network intrusion detection system using clustering and Extreme Learning Machines. *JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, 355*(4), 1752-1779.

124. Atli, B. G., Miche, Y., Kalliola, A., Oliver, I., Holtmanns, S., Lendasse, A. (2018). Anomaly-based intrusion detection using extreme learning machine and aggregation of network traffic statistics in probability space. *Cognitive Computation, 10*(5), 848-863.

123. Dogan, M., Beach, S., Simons, R., Lendasse, A., Penaluna, B., Philibert, R. (2018). Blood-Based Biomarkers for Predicting the Risk for Five-Year Incident Coronary Heart Disease in the Framingham Heart Study via Machine Learning. *Genes, 9*(12), 641. http://dx.doi.org/10.3390/genes9120641.

122. Gritsenko, A., Akusok, A., Baek, S., Miche, Y., Lendasse, A (2018), Extreme learning machines for visualization+ r: mastering visualization with target variables, *Cognitive Computation*, 10, 464-477.

121. Song, Y., He, B., Zhao, Y., Li, G., Sha, Q., Shen, Y., Yan, T., Nian, R., Lendasse, A., (2018), Segmentation of Sidescan Sonar Imagery Using Markov Random Fields and Extreme Learning Machine, *IEEE Journal of Oceanic Engineering*.

120. Deng, W., Lendasse, A., Ong, Y., Tsang, I., Chen, L., and Zhen, Q., (2018), Domain Adaption via Feature Selection on Explicit Feature Map, *IEEE Transactions on Neural Networks and Learning Systems*, 1-11.

119. Lauren, P., Qu, G., Zhang, F., Lendasse, A. (2018). Discriminant document embeddings with an extreme learning machine for classifying clinical narratives. *Neurocomputing, 277*, 129-138.

118. Song, Y., Zhang, S., He, B., Sha, Q., Shen, Y., Yan, T., Nian, R., Lendasse, A. (2018). Gaussian derivative models and ensemble extreme learning machine for texture image classification. *Neurocomputing, 277*, 53-64.

117. Lauren, P., Qu, G., Yang, J., Watta, P., Huang, G.-B., Lendasse, A. (2018). Generating Word Embeddings from an Extreme Learning Machine for Sentiment Analysis and Sequence Labeling Tasks. *Cognitive Computation*, 1-14.

116. Boemer, F., Ratner, E., Lendasse, A. (2018). Parameter-free image segmentation with SLIC. *Neurocomputing, 277*, 228-236.

115. Roshan, S., Miche, Y., Akusok, A., Lendasse, A. (2017). Adaptive and online network intrusion detection system using clustering and Extreme Learning Machines. *Journal of the Franklin Institute*. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025432266&doi=10.1016%2fj.jfranklin.2017.06.006&partnerID=40&md5=d76f48072c0b41952941a822ae24a278

114. Akusok, A., Gritsenko, A., Miche, Y., Björk, K.-M., Nian, R., Lauren, P., Lendasse, A. (2017). Adding reliability to ELM forecasts by confidence intervals. *Neurocomputing, 219*, 232-241. https://www.scopus.com/inward/record.uri?eid=2-s2.0-

84998775194&doi=10.1016%2fj.neucom.2016.09.021&partnerID=40&md5=e363e1b058f01b698954608a3e209abd

113. Lendasse, A., Vong, C.M., Toh, K.-A., Miche, Y., Huang, G.-B. (2017). Advances in extreme learning machines (ELM2015). *Neurocomputing*. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013998297&doi=10.1016%2fj.neucom.2017.01.089&partnerID=40&md5=20c6680b84dbcb6d768e280d250ca53d

112. Sun, Z., He, Y., Gritsenko, A., Lendasse, A., Baek, S. (2017). Deep Spectral Descriptors: Learning the point-wise correspondence metric via Siamese deep neural networks. *arXiv preprint arXiv:1710.06368*.

111. Lauren, P., Qu, G., Zhang, F., Lendasse, A. (2017). Discriminant document embeddings with an extreme learning machine for classifying clinical narratives. *Neurocomputing*. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028473795&doi=10.1016%2fj.neucom.2017.01.117&partnerID=40&md5=16e0d45c4645a5bb115802d1ed34a085

110. Song, Y., Zhang, S., He, B., Sha, Q., Shen, Y., Yan, T., Nian, R., Lendasse, A. (2017). Gaussian derivative models and ensemble extreme learning machine for texture image classification. *Neurocomputing*. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028363328&doi=10.1016%2fj.neucom.2017.01.113&partnerID=40&md5=920c91941faf3d08a7ed9c9a76e35a92

109. Ren, W., Miche, Y., Oliver, I., Holtmanns, S., Bjork, K.-M., Lendasse, A. (2017). On distance mapping from non-euclidean spaces to euclidean spaces. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10410 LNCS*, 3-13. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028992559&doi=10.1007%2f978-3-319-66808-6_1&partnerID=40&md5=3c104c1f9ade42e97385c51f85003250

108. Boemer, F., Ratner, E., Lendasse, A. (2017). Parameter-free image segmentation with SLIC. *Neurocomputing*. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028451722&doi=10.1016%2fj.neucom.2017.05.096&partnerID=40&md5=e0d4e04184e642a574e76dd214d09c89

107. Miche, Y., Oliver, I., Ren, W., Holtmanns, S., Akusok, A., Lendasse, A. (2017). Practical estimation of mutual information on non-euclidean spaces. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10410 LNCS*, 123-136. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028975488&doi=10.1007%2f978-3-319-66808-6_9&partnerID=40&md5=ced244dbb1d2ee44fcd86153945abd5d

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