

Curriculum Vitae

Prof. **Engelbert Mephu Nguifo**, Ph.D., Ing., male

www.isima.fr/mephu

research interests

Big Data, Artificial Intelligence, Machine Learning, Formal Concept Analysis, Data Mining, Feature Extraction, Bioinformatics.

experience

- 2008-... : **Full Professor**, Computer Science Institute, University Clermont Auvergne, France.
- 2017-... : Director of Master Degree Program in Computer Science.
- 2016-... : Board member of the CNRS National Research Group in Artificial Intelligence (<https://gdr-radia.cnrs.fr/>).
- 2015-2022: Board member of the French Association on Artificial Intelligence, <http://afia.asso.fr>.
- 2006-2023: Steering Committee of Intl. Conf. on Concept Lattices and their Applications (CLA).
- 1994-2008: assistant/associate professor, Dept. Computer Science, Artois University, Lens, France.

current research grants and projects

- Intl. Project CNRS DSCA : (10/2022-09/2024) FDMI <https://fdmi.limos.fr/>
- French Project BPI IT2.fr : (11/2020-10/2023) <https://dasma.limos.fr/>
- Innovative regional project FEDER LIMOS-INRAE, (10/2019-03/2023), DAPPEM, 42 months. <https://dappem.limos.fr/>

reviewer and organization of workshops and conferences

Editorial Board of French Open Journal on Artificial Intelligence (ROIA : <https://roia.centre-mersenne.org/journals/ROIA/>).

- co-chair of ECML/PKDD'17,19,20 and VLDB'18 workshop on Large Evolving Graphs
- co-chair of IJCAI'2015-2018 and ICML'2018-2021 workshop on AI and Bioinformatics
- co-chair of WWW'2016 workshop on Web in Africa (wwwAfrica'2016)

For several journals as: MLJ, Information Systems, IEEE TKDE, DMKD, DAM, FGCS, KBS, DKE,

For grant agencies: ANR (fr), NSERC/FQRNT (ca), Czech Science Foundation (cz), NRF (South Africa), NCN (pl).

advisor and publication summary

- 23 PhD in Computer Science [Artois Univ. (6), UQAM (1), Univ. Yde1 (2), Clermont Auvergne Univ. (14)].
- 2 PhD in Life Sciences : Bioinformatics [Lille 2 Univ. (1); Clermont Auvergne Univ. (1)].
- 40+ journal papers ; 5 book chapters; 13 journal and books (invited) editor; 100+ conference proceedings papers.
- citation summary** : 3031 total, h-index 32, i10-index 79 (Google Scholar, August 2023).
- best paper awards** : 2008 (1st Prize, Intl. Conf. MICAI, Mexico). 2012 (1st Prize, Intl. Conf. ICTAI, Athens). 2023 (1st Bourbakis Prize IJAIT Journal)

selected publications

- Jalal T., et al., BCoQA: Benchmark and Resources for Bangla Context-based Conversational Question Answering, *ACL ARR* (2024)
- Mbouopda M. F., Mephu Nguifo E.: Scalable and accurate subsequence transform for time series classification, *Pattern Recognition* 147 : 110121 (2024) (oral presentation at ECML/PKDD 2024 nectar track)
- Lonlac J., Mephu Nguifo E.: Top-k Learned Clauses for Modern SAT Solvers. *Int. J. Artif. Intell. Tools* 32(1): 2350003 (2023)
- Hossain Sk. I., et al.: Exploring convolutional neural networks with transfer learning for diagnosing Lyme disease from skin lesion images. *Comput. Methods Programs Biomed.* 215: 106624 (2022)
- Inoubli W. et al.: A distributed and incremental algorithm for large-scale graph clustering. *FGCS*. 134: 334-347 (2022)
- Veras M. B. A., et al.: On the design of a similarity function for sparse binary data with application on protein function annotation. *Knowledge Based Systems*. 238: 107863 (2022)
- Ngo Bibinbe A-M. S. et al.: DragStream: An Anomaly and Concept Drift Detector In Univariate Data Streams. *ICDM-W*. 2022: 842-851
- Djiberou Mahamadou A. J., et al.: Categorical fuzzy entropy c-means. *FUZZ-IEEE* 2020: 1-6
- Mbouopda M. F., Mephu Nguifo E.: Uncertain Time Series Classification with Shapelet Transform. *ICDM (Workshops)* 2020: 259-266
- Siyon Fotso VS, et al.: Frobenius correlation based u-shapelets discovery for TS clustering. *Pattern Recognition* 103: 107301 (2020)
- Inoubli W., et al.: An experimental survey on big data frameworks. *Future Generation Computer Systems*. 86: 546-564 (2018)
- Lonlac J., et al.: An Approach for Extracting Frequent (Closed) Gradual Patterns Under Temporal Constraint. *FUZZ-IEEE* 2018: 1-8.
- Dhifli W., et al.: MR-SimLab: Scalable subgraph selection with label similarity for big data. *Information Systems*. 69: 155-163 (2017).
- Alami K., et al.: EGG: A Framework for Generating Evolving RDF Graphs. *ISWC* (Posters, Demos & Industry Tracks) 2017
- Tiogning Kueti L., et al.: Boolean factors based Artificial Neural Network. *IJCNN* 2016: 819-825
- Aridhi S. et al. Density-based data partitioning strategy to approximate LS subgraph mining. *Information Systems*, 48: 213-223 (2015)
- Bouker S. et al.: Mining Undominated Association Rules Through Interestingness Measures. *Int. J. Artif. Intell. Tools* 23(4) (2014)
- Saidi R., et al. Protein sequences classifi. by means of feature extraction with substitution matrices. *BMC Bioinformatics* 11, 175 (2010).
- Hamrouni T., et al.: Sweeping the disjunctive search space towards mining new exact concise representations of FI. *Data Knowledge Engineering (DKE)*. 68(10): 1091-1111 (2009)
- Fournier-Viger P., et al.: A KD Framework for Learning Task Models from User Interactions in ITS. *MICAI* 2008: 765-778
- Gasmi G., et al.: IGB: A New Informative Generic Base of Association Rules. *PAKDD* 2005: 81-90
- Mephu Nguifo E., Njiwoua P.: Using Lattice-Based Framework as a Tool for Feature Extraction. *ECML* 1998: 304-309
- Mephu Nguifo E., Sallantin J.: Prediction of Primate Splice Junction Gene Sequences with a Cooperative Knowledge Acquisition System. *Intelligent Systems for Molecular Biology (ISMB)* 1993: 292-300