



Bekmanova Gulmira

Professor of Artificial Intelligence Technologies
Department

Date of birth: 19.09.1981

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Scientific degree, title, scientific school:

Candidate of Technical Sciences, Ph.D.

H-index=6

Scientific interests: knowledge engineering, ontology modeling, web semantic, NLP and speech technologies, machine translation and other areas of artificial intelligence.

There are more than 90 published scientific papers, 3 monographs and 4 manuals (2 manuals in English); 2 copyright certificates. H-index = 2. 1 Ph.D. student's thesis defense under the scientific supervision on specialty "6D060200-Computer science". 15 master degree dissertations in Computer science and Information security systems have been realized under my leading.

2 massive open online courses: "Theory of Databases", "Database theory" had been developed and had been introduced into the educational process.

Languages: Kazakh, English, Russian.

Training courses, seminars and internship:

- December 2011 – Internship at the Center for Educational Research of Sevres, France
- February 2015 – Workshop "Programming and Algorithm", Beuth University of Applied Sciences, Berlin, Germany
- June 2015 – Workshop "Databases" and "Data Mining and Data Warehouses" Kaunas Mining and Data Warehouses" Kaunas University of Technology, Kaunas, Lithuania
- January 2016 – International Seminar "Training HEREs and University Staff in Using ICT in the Teaching and Learning Process", organized by the MES RK and the National Office of Erasmus+ in Kazakhstan, Almaty, Kazakhstan.
- March 2017 seminar for coordinators of ERASMUS LMPI project (Licence, Master professionnels pour le développement, l'administration, la gestion, la protection des systèmes et réseaux informatiques dans les entreprises), Lyon, France.
- July 2017 –Seminar "Design of Information Security educational programs", Sofia Bulgaria
- November-December 2017 Internship in Grenoble Alps University Computer science department (72 hours).
- June 2018 Internship "Digitalization of European universities" in Netherlands and Germany universities (72 hours).
- August 2018 Internship "Development of massive open online courses" in International University of Telematics Uninettuno, Rome, Italy (40 hours).

Education:

- 1999 – 2004 D. Serikbayev East Kazakhstan State Technical University (EKSTU)
- Engineer of Information Systems (diploma with Honor)
- 2004 – 2006 EKSTU
- Master of Information Systems (diploma with Honor)
- 2006-2010 L.N. Gumilyov Eurasian National University (ENU), applicant for a scientific degree
- Specialty: 05.13.11 – Mathematical software for computers, complexes and computer network
- Research area: Speech recognition
- Candidate of Technical Sciences
- 2007 – 2010 ENU, PhD Doctorate
- Specialty: 05.13.00 – Computer science, computer engineering and control
- Research area: Natural language processing
- Doctor of the specialty "Computer science, computer engineering and control"

Experience:

- 2004-2006 – Lecturer of the Department of Information Systems, EKSTU
- 2006-2010 – Lecturer, Senior Lecturer of the Department of Computer Engineering, ENU
- 2010-2011 – Associate Professor of the Department of Computer Engineering, ENU
- 2011- present – researcher at "Artificial Intelligence" Research Institute, ENU. Projects: 2012-2014 years "Automatization of recognition and synthesis of written Kazakh language and speech", "Creation of the acoustic corpus of the Kazakh language and refinement of its phonetic structure, presentation of Kazakh phonemes in the international phonetic alphabet"; 2014-present: "Intellectual system for teaching, monitoring and evaluating knowledge".

- 2011- April 2016 – Head of Computer Science and Information Security Department (Theoretical Computer Science, renamed in 2015). Under my management during this period the educational programs “5B060200- Computer science”, “6M060200- Computer science” have been accredited by the international accreditation agency ASIIN. Educational programs of the department took the leading positions in the national rankings of independent agencies IQAA and IAAR. There are new educational programs such as "5B100200- Systems of information security", "6M100200- Systems of information security", Double-diploma master's program with the university ITMO (St. Petersburg, Russia) of information security has been opened and launched (two graduates) , the network master's program under international project Tempus PROMIS (Alps University Grenoble France, Beuth University of Applied Sciences, Berlin, Germany, Lublin University of Technology, Lublin, Poland, Savonia University of Applied Sciences, Kuopio, Finland, Kaunas University of Technology, Kaunas, Lithuania). Nowadays master’s students of chair study in Alpes University, Grenoble France.
- 2015 – present full professor in conjunction with the research nuclear university Natonal Nuclear Research University MEPhI, Moscow, Russia on master program Information security, I teach and manage graduates from Kazakhstan.
- 2016- present – country coordinator of the project from Kazakhstan ERASMUS project 573901-EPP-1-2016-1IT-EPKKA-CBHE-JP "O Licence, Master professionnels pour le développement, l’administration, la gestion, la protection des systèmes et réseaux informatiques dans les entreprises" LMPI (http://eacea.ec.europa.eu/sites/eacea-site/files/cbhe_2016_results_by_region.pdf).
- April 2016- 2017 associate Professor of Computer Science and Information Security Department.
- September 2017-June 2018 – Head of the accreditation and ranking office ENU.
- 2018- present- associate Professor of Computer Science and Information Security Department.

Awards:

The Best teacher rank and grant of Higher Education Institution (2016) of the Ministry of Education and Science of the Republic of Kazakhstan
 letters of gratitude from the ENU rector– 5

Publications (selected)

1. Yelibayeva G., Sharipbay A., Bekmanova G., Omarbekova A. (2021) Ontology-based extraction of Kazakh language word combinations in natural language processing. ACM International Conference Proceeding Series. 58-59. ISBN:978-145038838-2. DOI:10.1145/3460620.3460631.
2. Yergesh B., Bekmanova G., Sharipbay A. (2019) Sentiment analysis of Kazakh text and their polarity. Web Intelligence. Том 17, Выпуск 1, 9-15. ISSN:24056456. DOI:10.3233/WEB-190396.
3. Mukanova A., Yergesh B., Bekmanova G., Razakhova B., Sharipbay A.(2014) Formal models of nouns in the Kazakh language. Leonardo Electronic Journal of Practices and Technologies. Том 13, Выпуск 25, 264-273. ISSN:15831078.
4. Yergesh B., Mukanova A., Sharipbay A., Bekmanova G., Razakhova B. (2014) Semantic hyper-graph based representation of nouns in the Kazakh language. Computacion y Sistemas. Том 18, Выпуск 3, 627-635. ISSN:14055546. DOI:10.13053/CyS-18-3-2041.
5. Zhetkenbay L., Bekmanova G., Yergesh B., Sharipbay A. (2020) Method of Sentiment Preservation in the Kazakh-Turkish Machine Translation// In: Gervasi O. et al.(eds) Computational Science and Its Applications. Lecture Notes in Computer Science, vol 12250. 538-549. https://doi.org/10.1007/978-3-030-58802-1_38.
6. G. Yelibayeva, A. Mukanova, A. Sharipbay, A. Zulkhazhav, B. Yergesh, G. Bekmanova (2019). Metalanguage and Knowledgebase for Kazakh Morphology// Computational Science and Its Applications – ICCSA. Lecture Notes in Computer Science, Vol.11619. 693-706. DOI:10.1007/978-3-030-24289-3_51.