

Hamid Saadatfar's Resume

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Education

PhD in Computer Software, Ferdowsi University of Mashhad, 2014

- MSc in Computer Software, Ferdowsi University of Mashhad, 2009
- BSc in Computer Software, Ferdowsi University of Mashhad, 2007

Honors and Awards

- First place BSc graduate among 70 students, Ferdowsi University of Mashhad, 2007.
- First place MSc graduate among 12 students, Ferdowsi University of Mashhad, 2009.
- First place PhD graduate among 8 students, Ferdowsi University of Mashhad, 2014.
- Top researcher award for 2008 educational year, Ferdowsi University of Mashhad.
- Best professor award in the field of educational quality-enhancer activities, University of Birjand, 2021.
- Best professor award, University of Birjand, 2022.
- Best professor award, University of Birjand, 2023.

Publications in English

- Hamid Saadatfar, Hossein Deldari, and Mahmoud Naghibzadeh, "Improving the scheduler's energy saving capability by noting both job and resource characterisites", The Oxford Computer Journal, Vol. 58, No. 6, 2015, pp. 1482-1493.
- Hamid Saadatfar and Hossein Deldari, "A job submission manager for large scale distributed systems based on job futurity predictor", International Journal of Grid and Utility Computing, Vol. 5, No. 1, 2014, pp. 50-59.
- Hamid Saadatfar and Hossein Deldari, "A study on combinational effects of job and resource characteristics on energy consumption", Multiagent and Grid systems Journal, Vol. 9, No. 4, 2013, pp. 301-314.
- Hamid Saadatfar, Hamid Fadishei, and Hossein Deldari, "Predicting Job Failures in AuverGrid Based on Workload Log Analysis", New Generation Computing Journal, Vol. 30, no. 1, 2012, pp. 73-94.
- Shaghayegh Izadpanah, Hamed Vahdat-Nejad, and Hamid Saadatfar. "A Framework for ranking ubiquitous computing services by AHP analysis", International Journal of Modeling, Simulation, and Scientific Computing (2017): 1850023.
- Hamid Saadatfar, Hossein Salami, Hossein Deldari, Habib Rajabi Mashhadi and Farhad Rahmanifard, "JSM: Job submission manager for large-scale distributed systems based on game theory", 3rd International Conference on Advanced Computer Theory and Engineering (ICACTE), Vol. 5, pp. V5-549, IEEE, August 2010.
- Hossein Salami, Hamid Saadatfar, Farhad Rahmanifard, Seyed Kazem Shekofteh and Hossein Deldari, "Improving cluster computing performance based on job futurity prediction", 3rd International Conference on Advanced Computer Theory and Engineering (ICACTE), Vol. 6, pp. V6-303, IEEE, August 2010.
- Hamid Fadishei, Hamid Saadatfar, and Hossein Deldari, "Job failure prediction in grid environment based on workload characteristics", In Computer Conference, 2009. CSICC 2009. 14th International CSI, pp. 329-334. IEEE, 2009.

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- Hamid Saadatfar, Mohammad Hossein Yaghmaee and Habib Rajabi Mashhadi, "A fair active queue management approach based on supply and demand model", 5th International Symposium on Telecommunications (IST), IEEE, 2010.
- Arash Deldari, Hamid Saadatfar, Mahmoud Naghibzadeh and Hossein Deldari, "Agent-based k-nearest neighbor classifier for vertically distributed data sources", 4th international conference on information technology management, communication and computer, Tehran, Iran, pp. 36-43 June 2014.
- Seyyed Mehdi Hosseini, Javad Hassannataj Joloudari and Hamid Saadatfar, "MB-FLEACH: A New Algorithm for Super Cluster Head Selection for Wireless Sensor Networks", International Journal of Wireless Information Networks, Vol. 26, No. 2, 2019, pp 113–130.
- Eshan Shirzad and Hamid Saadatfar, "A Study on MapReduce Job Failures in Hadoop", International Journal Computer Modelling and New Technologies, Vol. 23, No. 1, 2019, pp 7-21.
- Saadatfar, H., Khosravi, S., Joloudari, J. H., Mosavi, A., and Shamshirband, S., "A New K-Nearest Neighbors Classifier for Big Data Based on Efficient Data Pruning", Mathematics, 8(2), 2020, p 286.
- Taimouri, M., & Saadatfar, H. (2019). "**RBSEP: a reassignment and buffer based streaming edge partitioning approach**". *Journal of Big Data*, 6(1), 1-17.
- Joloudari, J. H., Hassannataj Joloudari, E., Saadatfar, H., GhasemiGol, M., Razavi, S. M., Mosavi, A., Nabipour, N., Shamshirband, S. and Nadai, L. (2020). "Coronary artery disease diagnosis; ranking the significant features using a random trees model". International journal of environmental research and public health, 17(3), 731.
- Joloudari, J. H., Saadatfar, H., Dehzangi, A., & Shamshirband, S. (2019). "Computer-aided decision-making for predicting liver disease using PSO-based optimized SVM with feature selection". Informatics in medicine unlocked, 17, 100255.
- Shamshirband, S., Joloudari, J. H., GhasemiGol, M., Saadatfar, H., Mosavi, A., & Nabipour, N. (2020). "FCS-MBFLEACH: Designing an energy-aware fault detection system for mobile wireless sensor networks". Mathematics, 8(1), 28.
- Gholizadeh, N., Saadatfar, H., & Hanafi, N. (2021). "K-DBSCAN: An improved DBSCAN algorithm for big data". The Journal of Supercomputing, 77(6), 6214-6235.
- Shirzad, E., & Saadatfar, H. (2020). "Job failure prediction in Hadoop based on log file analysis". International Journal of Computers and Applications, 1-10.
- Moodi, F., & Saadatfar, H. (2021). "An improved K-means algorithm for big data". IET Software.
- Foadaddini, A., Zolfaghari, S. A., Darian, H. M., & Saadatfar, H. (2020). "An efficient GPU-based fractional-step domain decomposition scheme for the reaction-diffusion equation". Computational and Applied Mathematics, 39(4), 1-35.
- Shirzad, E., Ataei, G., & Saadatfar, H. (2021). "Applications of data mining in healthcare area: A survey". Engineering and Applied Science Research, 48(3), 314-323.
- Shirzad, E., & Saadatfar, H. (2019). "A study on MapReduce job failures in Hadoop". Computer Modelling and new Technologies, 23 (1), 7-21.
- Saadatfar, H., & Khazaie, B. (2021). "Workflow scheduling according to data dependencies in computational clouds". Jordanian Journal of Computers and Information Technology (JJCIT).
- Hanafi, N., & Saadatfar, H. (2022) "A fast DBSCAN algorithm for big data based on efficient density calculation". Expert Systems with Applications 203, 117501.

- Mayabadi, S., & Saadatfar, H. (2022) "Two density-based sampling approaches for imbalanced and overlapping data". Knowledge-Based Systems 241, 108217.
- Foadaddini, A., Zolfaghari, S. A., Darian, H. M., & Saadatfar, H. (2022) "A new GPU-based corrected explicit-implicit domain decomposition scheme for convection-dominated diffusion problems". Computers & Mathematics with Applications, 123, 184-203.
- Mollashahi, H., Saadatfar, H., & Vahdatnejad, H. (2023) "Summarization Algorithm for Data Stream to Speed up Outlier Data Detection". Journal of Computing and Security, 10(1), 35-46.
- Alipour, S., Saadatfar, H. & Poor, M.K. (2023) "A parallel multi-objective imperialist competitive algorithm to solve the load offloading problem in mobile cloud computing". Neural Comput & Applic 35, 18905–18932.

مقالات به زبان فارسي

- احسان شیرزاد، حمید سعادتفر، "تحلیل عوامل موثر بر عدم موفقیت برنامهها در چارچوپ هادوپ بر اساس فایلهای ثبت وقایع"، بیست و سومین کنفرانس سالانه انجمن کامپیوتر ایران، ص ۴۰۱–۴۰۶، دانشگاه صنعتی شریف، اسفند ۹۶، تهران.
- سلیمان کاهنی، حمید سعادت فر، "یک روش آینده نگر برای بخش بندی جریانی گرافهای بزرگ"، چهارمین کنفرانس بین المللی پژوهشهای کاربردی در مهندسی کامپیوتر و پردازش سیگنال، ص ۱-۱۲، آذر ۹۵، تهران.
- احسان شیرزاد، حمید سعادتفر، "مروری بر روش های پیش بینی خرابی در سیستم های توزیع شده مقیاس بزرگ"، مجله علوم رایانشی، شماره ۲۰، بهار ۱۴۰۰.

كتابها

سید علیرضا ذوالفقاری، حمید سعادتفر، علی فوادالدینی، مبانی کاربردی استفاده از پردازنده گرافیکی
برای محاسبات عددی در علوم مهندسی، انتشارات دانشگاه بیرجند، ویرایش اول، پاییز ۱۳۹۸.

طرحهاي تحقيقاتي

- حمید سعادت فر، حامد وحدت نژاد. چالشهای امضاء دیجیتال و غصب هویت، سازمان کل ثبت احوال خراسان جنوبی، بهار ۱۳۹۷.
- حامد وحدتنژاد، حمید سعادتفر. تحلیل بستر شبکه اداره کل ثبت احوال استان خراسان جنوبی در جهت پیشبرد طرح ایمن سازی. سازمان کل ثبت احوال خراسان جنوبی، بهار ۱۳۹۷.

پروژهها

- تحلیل دادههای طرح کشوری سلامت سالمندان در همکاری با دانشگاه علوم پزشکی بیرجند
 - تحلیل دادههای بیماران کرونایی در همکاری با دانشگاه علوم پزشکی بیرجند
- تحلیل دادههای مربوط به شرکت بیمه در راستای پیشبینی خسارتهای ناشی از بیمه ماشین
 - نحلیل دادههای بیماران قلبی در همکاری با دانشگاه علوم پزشکی اصفهان

Courses

- Game Theory
- Programming Basics
- Machine Learning
- Data Stores and Data Mining
- Technical language
- Computer Network
- Mobile and Wireless Network
- Grid Computing
- Research and Presentation Methods

Work Experience

- Director of Information and Communication Technology at University of Birjand from 2023
- Assistant professor of Computer Engineering Department at University of Birjand from 2015
- Head of Computer Engineering Department at University of Birjand from 2018 to 2023
- ACM programming team coach and supervisor at University of Birjand (17th, 18th and 19th Asian Regional Contest)
- Technical Program Committee Chairman of The First Conference on Healthcare computing Systems and Technologies (CHEST 2019)
- Program Committee Member of 4th conference on Information Technology, Computer & Telecommunication
- Advisor of Computer Engineering Scientific Association at University of Birjand from 2016
- Collaborate with several journals as reviewer

Research Interests:

- Parallel and distributed computing
- Big data processing
- Data Mining and Machine learning