Curriculum Vitae
Dr. Samir Jafar
Associate Professor in Informatics

PERSONAL INFORMATION

Full Name: Samir Nazih Jafar
Nationality: Syrian
D.O.B: February 2ed, 1976
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EDUCATION

- **Ph.D. in Informatics (Systems and Software)**
  Grenoble National Institute Polytechnic (INPG) – France- 2006

- **Master (DEA) in Informatics (Systems and Communications)**
  Joseph Fourier University- Grenoble – France – 2002

- **Master (DESS) in Informatics**
  Joseph Fourier University- Grenoble – France – 2001

- **Diploma in Informatics**
  Damascus University- Syria – 1998

- **Bachelor's Degree in Informatics**
  Damascus University - Syria - 1997

EXPERIENCE (SCIENTIFIC ADMINISTRATION)

- **September 2017 up to September 2018:**
  Head of Administrative Committee
  Syrian Computer Society – Swieda Branch
- **September 2014 up to September 2015:**
  Head of Applied Mathematics and Informatics Department
  Faculty of Science
  Damascus University
- **September 2011 up to September 2013:**
  Head of Software and Information System Engineering Department
  Faculty of Computer and Informatics Engineering
  Syrian Private University (SPU) – Syria.
- **February 2012 to October 2012:**
  Vice Dean for scientific Affaire
  Faculty of Computer and Informatics Engineering
  Syrian Private University (SPU) – Syria.
- **September 2011 to February 2012:**
  Vice Dean for Administration and students Affaire
  Faculty of Computer and Informatics Engineering
  Syrian Private University (SPU) – Syria.

EXPERIENCE (TEACHING)

October 2024 up to Present:

Associate Professor, Informatics Engineering Department, ICT Engineering Faculty, Yarmouk Private University (YPU)

> Courses:
> 1- Algorithms and Data Structures
> 2- Advanced Database
> 3- Parallel Programming
> 4- Modeling and Simulation

August 2017 up to September 2024:

Associate Professor, Informatics Engineering Department, ICT Engineering Faculty, Arab International university (AIU)

> Courses:
> 5- Algorithms Design and Analysis
> 6- Algorithms and Data Structures
> 7- Theory of Computation (Automata Theory and Formal Languages)
> 8- Programming Languages
> 9- Parallel Programming
> 10- Compiler Design

September 2017 up to up to Present:

Associate Professor, Department of Applied Mathematics and Informatics, Faculty of Science, **Damascus University**, Syria.

> Courses:
> 1- Distributed And Parallel Systems
> 2- Algorithms Design and Analysis
> 3- Algorithms and advanced programming in Java
> 4- Object oriented programming in C++
> 5- Programming Languages
> 6- Introduction to Algorithms and Programming

marsh 2013 up to Present:

Associate Professor in Informatics, **Syrian Virtual University** (SVU), Syria

> Courses:
> 1- Computer Applications of Management
> 2- Database Management Systems

September 2011 up to 2017:

Assistant Professor, Software and Information System Engineering Department, Faculty of Computer Engineering and Informatics, **Syrian Private University** (SPU), Syria.

> Courses:
> 1- Information Theory
> 2- Computation Theory
> 3- Compilers Design
> 4- Information Retrieval Systems
> 5- Algorithms and Data Structures
> 6- Introduction to Algorithms and Programming
> 7- Orient Object Programming
> 8- Parallel programming

August 2007 up 2017:

Assistant Professor, Mathematics Department, Division of Applied Mathematics and Informatics, Faculty of Science, **Damascus University**, Syria.

Courses:
1- Algorithms Design and Analysis
2- Algorithms and advanced programming in Java
3- Algorithms and programming (C, Pascal)
4- Object oriented programming in C++
5- Advanced Programming in Pascal
6- Programming Languages
7- Computer Skills

September 2005 up to August 2006:

ENSIMAG, Grenoble National Institute Polytechnic (INPG), France

Courses:
1- Programming in C++
2- Parallel Algorithms
3- Linux Operating System

September 2004 up to August 2005:

ENSGI, Grenoble National Institute Polytechnic (INPG), France

Courses:
1- Algorithms
2- Programming in java

1998 up to 2000: Teaching.

Assistant in Informatics, Mathematics Department, Faculty of Science, Damascus University, Syria.

Courses:
1- Programming in Pascal & FORTRAN & C
2- Windows operating system

SUPERVISING POSTGRADUATE STUDENT

I have supervised many doctoral and master's students and graduation projects:

- 3 Ph.D. students in Informatics
- 15 Master's students in Informatics
- 16 graduation projects in Informatics

LANGUAGES

- Arabic is my native
- French: fluent in written and spoken
- English: Scientific Language

PUBLICATIONS

1. Samir Jafar, Alaa Salameh, "Modeling wireless sensor networks using random graph", Damascus University Journal, ISSN: 1726-5487, 2024.

2.

3. Jafar, S. Ghazal, R., and AL-Hamad M.M., Modeling Of Two-Levels Checkpointing With Silent And Fail-Stop Errors In Grid Computing System. In International journal of Grid and High performance computing (IJGHPC), 13(1). 2020.

4. Samir Jafar, Rebuilding Dataflow Graph for Dependability on Parallel distributed Applications. Journal of Al Baath University, vol 39 (3), 2017.

5. Samir Jafar, A continuous mathematical model of fault tolerance mechanisms for parallel applications. Journal of Al Baath University, vol 38 (8), 2016.

6. Noha Jobir, Samir Jafar, Auto Adaptive Strategy for Parallel Applications, Journal of Al Baath University, vol 38 (6), 2016.

7. Samir Jafar, Axel Krings and Thierry Gautier, "Flexible Rollback Recovery in Dynamic Heterogeneous Grid Computing", IEEE Transactions on Dependable and Secure Computing, 2009.

8. Xavier Besseron, Laurent Pigeon, Thierry Gautier, Samir Jafar, "Un protocole de sauvegarde/reprise coordonné pour les applications à flot de données reconfigurables". Technique et Science Informatiques 27(3-4): 395-425 (2008).

9. Samir Jafar, Laurent Pigeon, Thierry Gautier and Jean-Louis Roch. "Self-adaptation of parallel applications in heterogeneous and dynamic architectures". In ICCTA'06 IEEE Conference on Information & Communication Technologies: from Theory to Applications. Damascus, Syria, April 2006.

10. Xavier Besseron, Samir Jafar, Thierry Gautier and Jean-Louis Roch. "CCK : An improved coordinated checkpoint/rollback protocol for dataflow applications in KAAPI". In ICCTA'06 IEEE Conference on Information&Communication Technologies: from Theory to Applications. Damascus, Syria, April 2006.

11. Samir Jafar, Thierry Gautier, Axel W. Krings, and Jean-Louis Roch. "A Checkpoint/Recovery Model for Heterogeneous Dataflow Computations Using Work-Stealing". to appear in Proc. (LNCS) EUROPAR2005. August 30 - Sept. 2, Lisboa, Portugal, 2005. (31% d'acceptation)

12. Samir Jafar, Axel W. Krings, Thierry Gautier, and Jean-Louis Roch. "Theft-Induced Checkpointing for Reconfigurable Dataflow Applications. in Proc. IEEE Electro/Information Technology Conference EIT2005. May 22-25, Lincoln, Nebraska, 2005, U.S.A. (This paper received the EIT'05 Best Paper Award).

13. Axel Krings, Jean-Louis Roch and Samir Jafar. "Certification of Large Distributed Computations with Task Dependencies in Hostile Environments". in Proc. IEEE Electro/Information Technology Conference EIT2005. May 22-25, Lincoln, Nebraska, 2005, U.S.A.

14. Axel Krings, Jean-Louis Roch, Samir Jafar and Sebastien Varrette. "A Probabilistic Approach for Task and Result

Certification of Large-scale Distributed Applications in Hostile Environments". Proc. European Grid Conference (EGC2005), in LNCS 3470, © Springer Verlag, February 14-16, 2005, Amsterdam, Netherlands. (40% d'acceptation)

15. Samir Jafar, Sébastien Varrette and Jean-Louis Roch. "Using Data-Flow Analysis for Resilience and Result Checking in Peer-to-Peer Computations". In IEEE DEXA'2004 - Workshop GLOBE'04: Grid and Peer-to-Peer Computing Impacts on Large Scale Heterogeneous Distributed Database Systems. Zaragoza, Spain, august 2004.

16. Samir Jafar, Thierry Gautier et Jean-Louis Roch. "Modèle de Coût Algorithmique Intégrant des Mécanismes de Tolérance aux Pannes et expérimentations". Actes des 16èmes rencontres francophones du parallélisme, RENPAR'16. Du 6 au 8 Avril 2005. Pages 125--136. Le Croisic, France. (50% d'acceptation)

17. Xavier Besseron, Laurent Pigeon, Thierry Gautier and Samir Jafar. "Un protocole de sauvegarde / reprise coordonné pour les applications à flot de données reconfigurables".. In SympA'2006 (Canet en Roussillon, France, Octobre 2006).

18. Abdelaziz Djerrah, Samir Jafar, Van-Dat Cung and Hahn Peter. "Solving QAP on cluster with a bound of reformulation linearization techniques". To appear in the 17th IMACS World Congress Scientific Computation, Applied Mathematics and Simulation IMACS2005. Paris, France, July 11 - 15, 2005.

19. Samir Jafar and Jean-Louis Roch. "Fault-Tolerance for Macro Data-Flow Parallel Computations on Grid". In ICCTA'04 IEEE Conference on Information&Communication Technologies: from Theory to Applications. Damascus, Syria, april 2004.

20. Dominique Decouchant and Ana Maria Martinez Enriquez and Jesus Favela and Alberto L. Morin and Sonia Mendoza and Samir Jafar. "A Distributed Event Service for Adaptive Group Awareness". Proceedings of the Second Mexican International Conference on Artificial Intelligence, 2002, pages 506--515, Springer-Verlag.

BOOKS

1- Algorithms and Programming (4), Dr. Khaled Al-Khnaifes and Dr. Samir Jafar, Faculty of Science - Damascus University. 2008.

2- Introduction in Algorithms and Programming in C++, Dr. Samir Jafar, Faculty of Science - Damascus University. 2017.

3- Computer Applications of Management, Dr. Samir Jafar, Syrian Virtual University (SVU), 2020.