



Curriculum vitae

update 2020

Professional Experience

Dates	Since January 2012
Position	Lecturer/Researcher (Associate Professor since 2018)
Responsibilities	Teaching/Research
Employer	University of Batna 2 MOSTEFA BEN BOULAID of Batna, Algeria.
Activity	Education

Dates	December 2010 – December 2011
Position	IT engineer
Responsibilities	Development, webmaster
Employer	DRC Batna, Algeria
Activity	Administration

Dates	2008 -2009
Position	Teacher
Responsibilities	Teaching Java language
Employer	World technology School, Batna, Algeria
Activity	Education

Education

Dates	2012 - 2018
Diploma	PhD in computer science Subject : Efficient global illumination of point-based 3D scenes: application to SPH fluids Advisor : Pr. Med Chaouki BABAHENINI
Skills	-Path tracing -Direct/indirect lighting -Particle based fluid rendering
Organization	LESIA Lab, Department of computer science University Mohamed Khider of Biskra BP 145 ,07000 Biskra, Algeria

Ali BEDDIAF

PhD in Computer Science

Lecturer/Researcher at the University of Batna 2 , 05000 Batna, Algeria

Contact

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Research Interests:

Computer graphics applications : Point-based rendering, Global illumination, GPU based acceleration, Fluid visualization, 3D Watermarking

International experiences:

At Xlim Lab of Poitiers, France (during the preparation of the PhD thesis, I got a national scholarship "PROFAS-B" funded by the Algerian government in 2016)

At LSIS Lab of Marseille, France (during the preparation of the PhD thesis in 2014)

At LIRMM Lab of Montpellier, France (during the preparation of the MSc degree, I got an European scholarship "ERASMUS MUNDUS AVERROES" funded by the European Commission in 2010)

Referees

Med Chaouki Babahenini (Biskra, Algeria), William Puech (Montpellier, France), Daniel Meneveaux (Poitiers, France), Marc Daniel (Marseille, France)

Dates December 2015 – August 2016
Diploma Internship (Subject : Particle-based fluid rendering)
Advisor : Pr. Daniel Meneveaux

Skills -SPH fluid simulation and rendering
-Implicit surface rendering

Organization Xlim Lab,
Bât. H1 - SP2MI, 11 Bd Marie et Pierre Curie,
86360 Futuroscope Chasseneuil, Poitiers, France

Dates March 15, 2014 – April 15, 2014
Diploma Internship (Subject : point based modeling and rendering)
Advisor : Pr. Marc DANIEL

Skills -Gaussian Quadrature
-Integration of rendering equation

Organization LSIS Lab,
Ecole polytech, University of Aix Marseille
163, avenue de Luminy, Case 925 - 13288 Marseille Cedex 9, France

Dates 2008 – 2011
Diploma MSc in computer science. Specialization: Image synthesis and Artificial Life
Subject : interactive Texturing and deformation of point clouds.
Advisor : Pr. Med Chaouki BABAHENINI

Skills -C++ & OpenGL
-3D objects handling with MeshLab
-Rendering models

Organization LESIA Lab, Department of computer science
University Mohamed Khider of Biskra
BP 145 ,07000 Biskra, Algeria

Dates February 2010 – June 2010
Diploma Internship (subject : Multi-resolution analysis of 3D objects for a robust watermarking)
Advisor : Pr. William PUECH

Skills -DWT on 3D objects
-3D watermarking

Organization LIRMM Lab,
University of Montpellier 2
161, rue Ada, 34095 MONTPELLIER CEDEX 05, France

Dates	2003 - 2008
Diploma	Engineer in computer science. Specialization: Distributed and parallel systems Advisor: Dr. Med Rida ABDESSEMED
Skills	-Design and implementation of an enterprise application with J2EE -Clustering -LAN -Distributed Systems -System Programming on Intel 80x86 machines -Web development with PHP/MYSQL
Organization	Department of computer science, University of Batna 1 Avenue chahid Med El hadi boukhlouf 05000 Batna, Algeria
Publications	<p>Journal</p> <p>-A. Beddiaf, M.C. Babahenini, "Physically-Based Rendering of Particle-Based Fluids with Light Transport Effects", in 3D Research, Springer, 2018.</p> <p>International Conferences</p> <p>-A. Beddiaf, M.C. Babahenini, "An improved splat-based ray tracing for point-based objects", In Proceeding ISPS'2015, Alger, Algeria, 2015.</p> <p>-A. Beddiaf, M.C. Babahenini, "Efficient accelerated ray tracing de point-based objects", In Proceedings ICMCS'2014, Marrakech, Morocco, 2014.</p> <p>-A. Beddiaf, M.C. Babahenini et W. Puech, "Texture mapping approach for transforming arbitrary topology meshes to subdivision connectivity ones", In Proceedings ICMCS'2011, Ouarzazate, Morocco, 2011.</p> <p>-A. Beddiaf, M.C. Babahenini, W. Puech, "Free form deformer for point-based objects by GPU acceleration", In proceedings ISPS'2011, Alger, Algeria, 2011.</p> <p>-A. Beddiaf, W. Puech, M.C. Babahenini, "Topological synchronization mechanism for robust watermarking on 3D semi-regular meshes", In proceedings IEEE ICME '2011, Barcelone, Spain, 2011.</p> <p>-A. Beddiaf, M.C. Babahenini, "Nouvelle approche interactive de déformations libres sur des objets 3D à base de points", In proceedings CISC'2011, Jijel, Algeria, 2011.</p> <p>National Conferences</p> <p>-A. Beddiaf, M. C. Babahenini, "Path tracing : quadrature numérique de Gauss", In Proceedings IGVA'2014, Biskra, Algeria, 2014.</p> <p>-A. Beddiaf, M. C. Babahenini, "Towards accurate splat-based ray tracing de point-based", In Proceedings IGVA'2013, Biskra, Algeria, 2013.</p> <p>-A. Beddiaf, W. Puech, M.C. Babahenini, "Tatouage hiérarchique et robuste d'objects 3D", In Proceedings SNIB'2010, Biskra, Algeria, 2010.</p> <p>-Participation to 15th edition of Linux school and open source, University of Batna 1, Batna, Algeria, 2007.</p>
Languages	
Arabic	Maternal
French	Advanced
English	Very good