

## CURRICULUM VITAE

### 1 Personal Data

**First name:** Noureddine **Name:** Zemmouri **Title:** Dr. **Academic Rank:** Professor  
**Date of birth:** April 22<sup>nd</sup> 1960 **City:** Oued Taga **Country:** Algeria  
**Marital status:** Married **Number of children:** Three  
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### 2 Universities and schools attended and degrees received

#### First University Degree: (Architect)

**Name of degree:** *State Degree in Architecture*. **Date degree awarded:** 1984  
**School (Department):** Institute of Architecture Urban Design and Construction  
**Name and location of University:** University of Constantine (Algeria)  
**Specialisation:** *Architecture*

#### Second University Degree: (Master of philosophy)

**Name of degree:** *Mphil in Building Engineering*. **Date degree awarded:** 1987  
**School (or Faculty):** School of Architecture and Building Engineering  
**Name and location of University:** University of Bath (United Kingdom)  
**Specialisation:** *Building Engineering*

#### Third University Degree: (State Doctorate)

**Name of degree:** *State doctorate*. **Date degree awarded:** 2005  
**School (or Faculty):** School of Architecture/Department of Architecture  
**Name and location of University:** University of Southern California (USA)/University of Setif (Algeria)  
**Specialisation:** *Architecture*

### 3 Other certificates obtained and advanced courses attended

- **Colchester English Certificate:** English for Research and Technology, Colchester English study centre (England) June 1985.
- **Northern Universities Joint Matriculation Board (J.M.B.):** Manchester (England) June 1985.
- **Teaching techniques Architecture studio:** University of Bath (England) 1986.
- **Computer Aided Design:** University of Bath (England) 1986.
- **Photogrammetry, architecture and Environmental Design:** Jena (Germany) 1996.
- **Strategies for Developing Effective Presentation Skills:** American Management Association Los Angeles (USA) December 2002.

### 4 Language Proficiency

- **Arabic**
- **English**
- **French**

### 5 Employment history

#### Department of Architecture University of Biskra Algeria 1990/Present

- **Executive Director Architecture & Environmental Design Laboratory**
- **Professor**
- **Head of Department**
- **President of the Scientific Board**
- **Research Group Leader**

#### School of Architecture University of Southern California Los Angeles USA 2002/2003

- **Visiting Professor Fulbright Program**

#### Department of Renewable Energy, , Environmental Sciences PhD Program, University of Québec at Rimouski, Canada 2007/2008

- **Visiting Professor University of Québec International Exchange Program**

#### Department of Architecture, Graduate School of Human Environment Studies, Kyushu University Japan 2010/2011

- **Visiting Professor University of Kyushu Exchange Program**

#### College of Architecture and Design, Jordan University of Science and Technology, Jordan 2014/2015

- **Visiting Professor TWAS -The World Academy of Science- Program**

## Consultancy

- **UN-Habitat**
- **Arab League Educational , Cultural and Scientific Organization (ALECSO)**
- **Algerian Ministry of Justice**
- **Architecture Studio Inc.**

## 6 Extracurricular activities and accomplishments

### a) Software development

- Code '**Nour**' : evaluation of interior illuminances under different sky conditions. Using Microsoft Fortran.
- Code '**Chemss**' : evaluation of irradiances on horizontal and vertical surfaces with different orientations and under different sky conditions. Using Microsoft Fortran.
- Code '**Mat-Light**': Interior Daylight evaluation under Matlab.
- Code '**Fuzzy-Light**': Daylighting evaluation using Fuzzy sets under Matlab.

### b) Membership in professional organizations

- *The Society of Building Science Educators (SBSE), USA*
- *Arab Society for Computer Aided Architectural Design (ASCAAD), UAE*
- *Soft Computing in Image Processing (SCIP Group), Belgium*
- *Aga Khan Award for Architecture, Switzerland*
- *Société Algérienne de l'énergie solaire, Algeria*
- *Commission internationale de l'éclairage (CIE), France*
- *Arab Science and Technology Foundation (ASTF), UAE*
- *World Federation on Soft Computing (WFSC), USA*

### c) Honours

- Scholarship granted by the **US State Department (Fulbright Scholar Program)** to follow six months of additional graduate research studies and engage in professional activities in the **USA (2002-2003)**.
- Scholarship granted by the **European Commission Tempus III Program (2006)**, for outstanding performance and to follow a one month research program on Cyber Education at the **Catholic University of Louvain la Neuve (UCL) Belgium**.
- Mobility Scholarship granted by the **Nato Science Program (2007)**, for participation at the Advanced Research Workshop (ARW) on Enhancing Security in the Middle East through Regional Cooperation on Renewable Energy, London U.K. January 2008.

- Mobility Scholarship granted by the **Nato Science Program (2009)**, for participation at the Advanced Research Workshop(ARW) on Achieving Environmental Security Ecosystem Services and Human Welfare, Newport USA July 6-10, 2009.
- **Jeffrey Cook Memorial Award in Building Science Education.** Las Vegas USA May 2010.
- Scholarship granted by the **UN-Habitat (2011)**, for participation at 2<sup>nd</sup> World Congress on Cities and Adaptation to Climate Change, Bonn Germany 3-5 June 2011.
- Fellowship granted by the **US Department of State**, Open Book Project (2014). OER (Online Education Resources) as an integral method of communication of curriculum in educational courses. USA February-March 2014.

## 7 Other experiences

- **Computer aided design:** Autocad, Archicad, Surfer, Rhino
- **Software Development under:** Visual Fortran, Matlab, Python, Grasshopper
- **Photogrametry and Architecture:** Geographic Information Systems (GIS)
- **Virtual reality and architecture:** Lighscape, Daysim, Radiance 3d Studio.
- **Web Site Construction:** Macromedia Fireworks, Dreamweaver and Flash
- **Building Information Modelling:** Rhino, Diva, Grasshopper, Energy+, Fluent, Phoenix, TrnSys, Dial+,

## *8 Academic References*

- Professor André De Herde, Faculty of applied sciences Université Catholique de Louvain Belgium.  
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### *Major communications and publications*

**Daylight availability under specific sky conditions.**

Cisbat 99 EPLF Lausanne Switzerland, September 1999.

**Simulation et optimisation des systèmes d'éclairage naturel (in French).**

Journées nationales sur les systèmes thermiques appliqués USTHB, Algiers (Algeria), May 1999.

**Simulation d'architecture en synthèse d'image (in French).**

Journées Technologiques de Ouargla (Algeria), November 1999.

**Les espaces verts et la pollution visuelle (in French).**

Urbanisme à Bejaia traces et perspectives. Bejaia (Algeria), October 1999.

**La perception de l'environnement urbain effet sur le comportement humain (in Arabic).**

Séminaire International d'Urbanisme Msila (Algeria), December 1999.

**L'environnement urbain entre planification et réalité (in Arabic).**

Séminaire International d'Architecture. Biskra (Algeria), December 1999.

**Islam, politics and the urban built environment transformation in Algeria**

First Mediterranean Social and Political Research Meeting, Florence (Italy), 22-26 March 2000.

**The Islamic urban environment: between transformation and Imitation**

International conference Megacities 2000, Hong Kong, 08-10 February 2000 .

**Windows design for energy conservation in hot arid zones**

International Solar Energy Conference Sharjah, UAE, 19-22 February 2001.

**Specific architectural design: the energy option**

International Solar Energy Conference Sharjah, UAE, 19-22 February 2001.

**Fuzzy logic for interior Daylight optimization.**

Second Symposium on Scientific Research and Technology Development in the Arab World. Sharjah, UAE, March 2002.

**Effects of sun controls on buildings interior lighting and thermal environment in hot arid regions.** Second Symposium on Scientific Research and Technology Development in the Arab World Sharjah, UAE, March 2002.

**Effects of sun controls on buildings interior lighting and thermal environment in hot arid regions,** UNESCO Programme Solaire Mondial, Revue des Energies Renouvelables, Volume 7, Numéro 1, pp.45-52, June 2004. CDER.

**Micro-Light: Simulation et optimisation des systèmes d'éclairage naturel dans le bâtiment.**  
Final report of the research projet n° 0701/01/2002. December 2004.

**www.arch.potofolio.edu: A virtual Student Portfolio**  
Séminaire National sur Les Nouvelles technologies de communications. Oran , January 2005.

**MatLight Version 1.0: An integrated daylight estimation tool**  
Cisbat 2005 EPLf Lausanne Switzerland.

**MatLight Version 1.0: A tool for Interior Daylight Estimation under Matlab**  
PLEA 2005 Beirut Lebanon November 2005.

**Application of Fuzzy Logic in Interior Daylight Estimation,** UNESCO Programme Solaire Mondial, Revue des Energies Renouvelables, Volume 8, Numéro 1, pp.55-62, June 2005. CDER.

**Virtual Design Studio: new ways of practicing architecture and teaching design in collaboration.**  
XXII UIA World Congress of Architecture UIA 2005 Istanbul Turkey 2005.

**Modeling energy efficient windows in hot arid zones.**  
The 2005 World Sustainable Building Conference Tokyo Japan 2005.

**Application of Fuzzy Logic in Interior Daylight Estimation,** UNESCO Programme Solaire Mondial, Revue des Energies Renouvelables, Volume 8, Numéro 1, pp.55-62, Juin 2004. CDER.

**E-learning in Architecture education:Challenges, strategies and approaches.**  
4th Scientific Research Outlook in the Arab word. Damascus December 2006.

**Cognitive computing in Architecture for daylighting optimization.**  
First Conference on Sources of Architectural Forms: Theory and Practice. Kuwait University, Kuwait, March 2007.

**Local Climatic Data Capture Using the NASA SSE Program,** Journal of the Association of Arab Universities for Basic and Applied Sciences, Volume 4, pp.202-207, August 2007.

**Urban built environment perception: effects on human behaviour (in Arabic).**  
Biskra international conference on Architecture and sustainability Biskra (Algeria), April 2008.

**Cyberspace, education, equity and architecture**  
5th Scientific Research Outlook in the Arab word Fez Morocco October 2008.

**Human behaviour assessment in religious spaces: Case study of Mozabite Mosques.**  
5th Scientific Research Outlook in the Arab word Fez Morocco October 2008.

**Housing developments in Algiers: Between culture, identity and political acts.**

Séminaire International sur la Gestion Immobilière Algiers June 2008.

**Vision sémiologique de l'espace public : cas de la rue du 8 mai 1945**, Notes de Recherche Territoires et Développements Durables, Published by the Université Catholique de Louvain la Neuve Belgium, Volume 1, 2009.

**Delivering the Architecture of Ecosystem Services: Daylight Modelling for Sustainable Building Design**, Nato ARW Workshop Achieving Environmental Security Ecosystem Services and Human Welfare, Newport USA July 6-10, 2009.

**Islam, Water and Architecture: A bibliographic review**, Society of Building Science Educators 2010 Retreat. Las Vegas USA May 2010.

**Modelling the wind flow in complex vernacular urban morphology: A computational fluid dynamics simulation of the central Ghardaia Area.** UNESCO Programme Solaire Mondial, Revue des Energies Renouvelables, Volume 14, Numéro 1, pp.85-94, Mars 2011. CDER.

**Effet de la morphologie urbaine sur l'environnement lumineux extérieur: Cas des zones arides et chaudes (in French).** ISUF 2011 : Urban Morphology and the Post-carbon City. Concordia University, Montréal Canada August 2011.

**A study of optimization of the light shelf system in hot and arid zones.** ASES Solar 2013, Baltimore, Maryland, USA, April 2013.

**Cyberspace for sustainable and liveable cities. Intercampus Project for Strengthening Climate Change in Urban Education**, Annual Conference on Education Innovation (ACEI 213), Okinawa Japan , November 213.

**Solar and daylight availability evaluation and estimation in urban fabric under specific sky conditions.** The International Conference for Enhanced Building Operations (ICEBO 2014), Tsinghua University, Beijing, China, May 2014.

**A mobility study of visually impaired people in a specific urban space**, International Mobility Conference (IMC15), Montréal Canada, July 2015.

**A Bio Problem-Solver for Supporting the Design, Towards the Optimization of the Energy Efficiency**, 6<sup>th</sup> International Conference on Modeling, Simulation, and Applied Optimization, Istanbul, Turkey, May 215, Publisher IEEE.

**SPUCAL\_mrt as a New Model for Estimating the Mean Radiant Temperature in Arid Lands**, Energy Procedia, Volume 74, pp. 273-280, August 2015.



**Books Contribution**

**1- Renewable Energy in the Middle East: Enhancing Security Through Regional Cooperation.**

***Published by Springer 2009.***

**2- Mimarliklerin Pazaryeri (Turkish): Virtual Studio: New ways for teaching architecture.**

***Translated to Turkish and published by the Chamber of Architects of Turkey 2009.***

**3-Strengthening Urban Climate Change Education: Module Development for the Cities and Climate Change Academy.**

***Published by UN-Habitat 2011.***

**4-Achieving Environmental Security: Ecosystem Services and Human Welfare.**

***Published by IOS Press 2012.***