



## CURRICULUM VITAE

### 1 Personal Data

**Name:** Zemmouri    **First name:** Nouredine    **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):** Department of Architecture Faculty of Engineering  
**Name and location of University:** University of Southern California (USA)/University of Setif (Algeria) )  
**Specialisation:** *Architecture*

### 3 Other certificates obtained and advanced courses attended

- **Certificate in English courses:** Colchester English study center (England) June 1985.
- **Join Matriculation Board (J.M.B.) :**Colchester English study center (England) June 1985.
- **Teaching Architecture courses:** University of Bath (England) 1986.
- **Computer Aided design courses:** University of Bath (England) 1986.
- **Photogrammetry and architecture:** 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

- **Director Architecture & Environment 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**

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

- **Visiting Professor**

#### Department of Architecture Jordan University of Science and Technology Irbid Jordan 2012/2014

- **Visiting Professor**

#### 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, Swiszerland*
- *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) Honors

- 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, Radiance, Adeline
- **Software Development:** Visual Fortran, Matlab
- **Photogrametry and Architecture:** Geographic Information Systems (GIS)
- **Virtual reality and architecture:** Lightscape, 3d Studio.
- **Web Site Construction:** Macromedia Fireworks, Dreamweaver and Flash
- **Simulations:** Fluent, Airpack, Phoenix, Radiance

## 8 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 building's 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 building's 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: Software Presentation**

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 world Fez Morocco October 2008.

**Human behaviour assessment in religious spaces: Case study of Mozabite Mosques.**

5th Scientific Research Outlook in the Arab world 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.

**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.

### **Books Contribution**

#### **Renewable Energy in the Middle East: Enhancing Security Through Regional Cooperation**

Published by Springer 2009.

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

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

#### **Strengthening Urban Climate Change Education: Module Development for the Cities and Climate Change Academy.** UN-Habitat global workshop, Bonn, 1-2 June 2011.

### **9 References**

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