

EDUCATION, DEGREES, PROFESSIONAL

of

Ahmed DJEBBAR

Lille University of Sciences and Technologies

[April 2021]

GENERAL EDUCATION

- **Bachelor degree** (Mathematic series): Algiers, 1962.

UNIVERSITY EDUCATION

- **Arabic degree of Madrasa** (= Licence in Islamic Law): Algiers, 1962.
- **Master's degree in Mathematics**: University of Algiers, 1965.
- **Ph.D in Mathematics**, Functional Analysis: Paris-Sud University, 1972.
- **D. Sc. in History of Mathematics**, Option History of Mathematics in the Muslim West: Nantes University, 1990.
- **Habilitation in History of Mathematics**: Paris, Ecole des Hautes Etudes en Sciences Sociales, 1998.

PROFESSIONAL EXPERIENCE

- **Professor Emeritus of Mathematics and History of Mathematics**: Lille University of Sciences and Technologies (France).
- **Scientific researcher in the field of History of Mathematics, Associated Member of C.N.R.S.** (U.M.R. 8524). Specific field: Middle Age – Arabic Mathematics in al-Andalus, Maghreb and Sub-Saharan Africa: since 1975.

ACTIVITIES IN NATIONAL OR INTERNATIONAL ORGANISATIONS

- **Secretary to the International Commission for the History of Mathematics in Africa (A.M.U.C.H.M.A.)**: 1987-2013.
- **Member of the *International Commission for the History of Mathematics* (since 1992) and member of the Executive Committee**: since 2005.
- **Member of the *International Academy for the History of Science***: since 2005.
- **Member of Editorial Board of:**
 - *Archives* (Germany): 1998 – 2006.
 - *Lull* (Spain): since 2000.
 - *Journal for the History of Arabic Science* (Aleppo, Syria): since 2004.
 - *Tarikh-e Ilm* (Teheran, Iran): since 2004.
 - *International Journal for the History of Mathematics Education* (Bielefeld, Germany): 2006-2016.
 - *Suhayl* (Barcelona, Spain): since 2009.
 - *Scientific Heritage of Islam and Iran Journal* (Teheran, Iran): since 2014.
 - *Oriens* (U.S.A.): since 2014
- **Scientific curator of the exhibition “The golden age of Arabic Sciences”**: Paris, Institut du Monde Arabe (24 October 2005-19 March 2006).

- **Scientific curator of the itinerant exhibition “*The Sciences in the Islamic countries*”**: Paris, Institut du Monde Arabe, 2007.
- **Associated Member of:**
 - The French National Committee of teaching programs: 2000-2004
 - The Moroccan National Committee of teaching programs: 2004-2006
- **Member of the Advisory Board of the I.S.M.I.** (Islamic Scientific Manuscripts Initiative), U.S.A.: since 2006
- **Vice-President of « *Transcultura* »**
- (Presided by Umberto Eco): 2008-2013.
- **Vice-President of « Institut International de Recherche de Politique des civilisations »** (Presided by Edgar Morin) : since 2009-2013.
- **Member of the International Jury “*Prize al-Idrîsî*” created by the Regional Government of Sicily**: 2010-2013.
- **Member of the International Jury “*Prize Sharja-Unesco*”** created by His Highness Sheikh Sultan bin Mohammed Al Qasimi: 2013-2017.
- **Member of the Scientific Council of the Sharja International Foundation for the History of Arab-Islamic Sciences**: since 2016.

Distinctions:

- Doctor Honoris Causa of the Roskilde university (Denmark): 2006.
- Algerian Scholar Award (Algiers): 2014
- Founding Member of the Algerian Academy of Science and Technology: since 2015.
- David Eugene Smith Award (Columbia University, New York): 2016
- International Avicenna Prize: Paris, 2018.
- Corresponding member of the Tunisian Academy of Sciences, Arts and Culture: 2019.
- President of the High council of Science and Culture of the Great Mosque of Paris: 2020

OFFICIAL ACTIVITIES IN ALGERIA

- Adviser of President Mohamed BOUDIAF for Education, Culture and Communication: 18 January 1992 - 29 June 1999.
- Minister of National Education, Higher Education and Scientific Research:
 - 19 July 1992 – 21 August 1993 (Government of Mr. Bélaïd ABDESSELAM).
 - 4 September 1993-16 April, 1994 (Government of Mr. Rédha MALEK).

RESEARCH ACTIVITIES

WORK PUBLISHED OR UNDER PUBLICATION

In Mathematics

Thesis

1972: Resolution of problems of Cauchy by the method of Ovcyannikov, Ph D. Thesis, Paris, University of Paris-South, 1972.

Article

1972: Resolution of characteristic problems, *Compte-rendus de l'Académie des Sciences*, Paris, T 275 (20 November 1972), Series A, p. 1089-90.

In History of Mathematics

Thesis

1990: Mathematics and Mathematicians of the medieval Maghreb (IXth-XVIth centuries): Contribution to the study of the scientific activities of the Moslem West, Thesis of Doctorate, University of Nantes, 1990, 850 p. (in French).

Habilitation

1998: Contribution to the study of the mathematical activities in the Moslem West (IXth-XVIth centuries), Paris, School of the High Studies in Social Sciences, 1998. (in French).

BOOKS

IN FRENCH

1980: *Mathematical teaching and research in the Maghrib during the XIII-XIVth centuries*, Paris, Mathematical Series of Orsay University, n° 81-02, 146 p. (in French).

1981: *The algebraic work of al-Khayyâm*, critical edition, French translation and analysis, Alep, Institute for the History of Arabic Sciences, 1981, 304 p¹ (with critical edition).

1985: *Combinatory analysis in the Maghrib: Ibn Mun^cim example (XII-XIIIth centuries)*. Mathematical Series of Orsay University, 1985, n° 85 -01, 124 p. (in French).

1987: *Mathematics through ages*, J. Dhombres (Eds.). Paris, Gauthiers-Villars. 1987. 327 p².

1994: *A History of Algorithms, From the Pebble to the Microchip*, French version: Paris, Belin, 1994, 591 p.³.

¹ - In collaboration with R. Rashed (Paris, C.N.R.S.).

² - Collective Work.

³ - In collaboration with E. Barbin, J. Borowczyk, J.-L. Chabert, M. Guillemot, J. C. Marstzloff et A. Michel-Pajus.

- 2001: *A History of Arabic science*, Paris, Seuil, 2001, 384 p.⁴.
- 2003: *Geometry in the Islamic Decorative Arts*, Cairo, French Center for Cultural Cooperation, 25 p⁵. (Booklet in Arabic & French).
- 2004 : *Mathematics in History and African Cultures, Annotated Bibliography*, U.F.R. of Mathématiques, Université des Sciences et des Technologies de Lille (France), 2004⁶.
- 2005: *Arabic algebra, genesis of an art*, Paris, Vuibert-Adapt, 206 p.
- 2005: *The golden age of Arabic sciences*, Paris, Le Pommier, 187 pp. Second edition : 2013, 191 pp.
- 2005: *The golden age of Arabic sciences*, Exhibition Catalog of the Arab World Institute (25 October 2005-19 March 2006), 323 p.
- 2006: *For the history of science and technology*, Paris, Hachette, 160 p⁷.
- 2009: *The Discoveries in Islamic countries*, Paris, Le Pommier, 2009⁸, 192 p.
- 2011: *Arabic Sciences in Africa, Astronomy and Mathematics (9th-19th Centuries)*, Paris, Grandvaux-Vecmas. New edition : Apic Editions, Alger, 2012, 191 p.⁹.
- 2013: *Al-Khwarizmi, Algebra and Indian Arithmetic*, Paris, Kangourou Edition, 2013, 56 p.
- 2014: *Arab mathematics (9th-16th century), Texts and documents*, Alger, DGRST- CRASC, 2014, 294 p.
- 2020 : *Sciences and knowledge of the Orient: Inheritance and transmission from -3300 to + 1500*, Paris, Geuthner¹⁰.

IN ARABIC

- 1981: *The algebraic work of al-Khayyām*, critical edition, Alep, Institute for the History of Arabic Sciences, 1981, 304 p¹¹.
- 1990 : *Kitāb al-uṣūl wa l-muqaddimāt fī l-jabr wa l-muqābala* [Book of Foundations and Premises of Algebra] (Critical Edition, with French translation and mathematical analysis). In Doctoral These. (Not published).
- 2001: *Ḥayāt wa mu'allafāt Ibn al-Bannā al-Murrākushī* [Life and work of Ibn al-Bannā Al-Murrākushī], Rabat, Université Mohamed V, Publications of the Faculty of Arts and Social sciences, 238 p.¹².
- 2003 : *Al-handasa fī fann al-zakhrafa al-islāmiya* [Geometry in Islamic Decorative Arts], Le Caire, Centre Français de Culture et de coopération.
- 2007 : *Al-ʿulūm al-ʿarabiya fī ʿaṣrihā al-dhahabī* [The golden Age of Arabic sciences], Catalogue de l'exposition de l'Institut du Monde Arabe (25 octobre 2005-19 mars 2006), Version arabe : Paris, I.M.A., 2007, 323 pp.¹³

⁴ - Book in the form of interviews with J. Rosmorduc (Brest University, France).

⁵ - In collaboration with B. Maitte.

⁶ - In collaboration with P. Gerdes (Higher Institute of Education, Maputo, Mozambique).

⁷ - In collaboration with G. Gohau et J. Rosmorduc.

⁸ - Editor. In collaboration with C. de Hosson et D. Jasmin.

⁹ - In collaboration with M. Moyon (Université de Limoges).

¹⁰ - In collaboration with A. Khater (Université du Mans).

¹¹ - In collaboration with R. Rashed (Paris, C.N.R.S.).

¹² - In collaboration with M. Aballagh (Kenitra University, Morocco).

- 2008: *Al-ʿaṣr al-dhahabī li l-ʿulūm al-ʿarabiya* [The Golden age of Arabic Sciences], A. Cheddadi & M. Aballagh (trad.), Rabat, Maison des Sciences des Arts et des Lettres, 179 pp.
- 2012: *ʿUlamaʾ al-hadara al-ʿarabiyya al-islamiyya wa musahamatuhum* [Scholars of Islamic Arab civilization and their contributions], Alger, Clic Editions, 2012, 207 pp.
- 2013 : *Al-Iktishāfāt al-ʿilmiya fī l-ḥadāra al-islāmiya* [Scientific discoveries in Islamic civilization], Amman, Islamic Academy of Sciences, 2013.

IN ENGLISH

- 1999 : *A History of Algorithms, From Pebble to the Microchip*, C. Weeks (trad.), Berlin-Heidelberg, Springer, 524 pp¹⁴.
- 2004: *Mathematics in African History and Cultures, an annotated Bibliographie*, First edition Cap Town, African Mathematical Union, Commission on the History of Mathematics in Africa, 262 pp. Second edition, Lulu editor, 2007¹⁵.
- 2011: *AMUCHMA 25 Years : History of Mathematics in Africa*, Lulu éditeur, 2 Vols., 887 p.¹⁶.
- 2011: *The Discoveries in Islamic Countries*, I.S.T.I.C., Kuala Lumpur, 2011.

IN ITALIAN

- 2002 : *Storia della scienza araba, il patrimonio intellettuale dell'Islam* [History of Arab Sciences , the intellectual Heritage of Islam], Milano, Raffaello Cortina Editore, 2002.

IN TURKISH

- 2016 : *İslâm Bilim Tarihi, İslâm Coğrafyasının Bilim Mirası Üzerine Konuşmalar* [A History of Science in the Islamic Countries], Istanbul, Küre Yayinlari, 2016.
- 2018 : *İslâm Ülkelerinde Buluşlar* [Discoveries in Islamic Countries], Istanbul, Bilge Kültür Sanat, 2018.

Newsletters on the History of Mathematics:

- 1987-2011: AMUCHMA Newsletter, Bulletin of Ethnomathematics and History of Mathematics of the African Mathematical Union, 1987-2011 (37 numbers). (in English)¹⁷.
- 1991-2014: Newsletter of the Ibn Al-Haytham's Seminar, Bulletin of the Group of Research in History of Mathematics (Algeria), 1991-2013, 10 n°. Bilingual (in Arabic and French)¹⁸.

¹³ - Editor.

¹⁴ - In collaboration with E. Barbin, J. Borowczyk, J.-L. Chabert, M. Guillemot, J. C. Marstzloff et A. Michel-Pajus.

¹⁵ - In collaboration with P. Gerdes (Maputo, Institut Supérieur Pédagogique).

¹⁶ - In collaboration with P. Gerdes.

¹⁷ - In collaboration with P. Gerdes).

¹⁸ - In collaboration with A. Bouzari, Y. Guergour and A. Harbili (Ecole Normale Supérieure, Algiers).

ARTICLES ON THE HISTORY OF ARAB SCIENCES

IN FRENCH

- 1984: *Some comments on the relationship between Arabic Philosophy and Mathematics*. Paper presented at the Maghribian conference on "the Arabic Heritage", Hammamet (Tunisia), June 1984. Published in the *Revue Tunisienne des Etudes Philosophiques*, 1984, Vol 1, n°2, March, p. 3-21. (in French).
- 1986: *Arabic Mathematics and their surroundings*. Paper presented during the summer school, Le Mans (France), July 6-13, 1984. Published in the proceedings of the summer school. Bellanger & sons ed., la Ferté Bernard, 1986, p. 36-70. (in French).
- 1987: *Mathematics in Maghreb during Ibn al-Bannâ's time*. Paper presented at the international conference on "Mathematics and Philosophy", Rabat (Morocco), April 4, 1982. Published in the conference proceedings, Okad Ed., Rabat, 1987, p. 31-46. (in French).
- 1987: *Algorithms and optimization in Arabic Mathematics*. Paper presented at the 1st international symposium of ICOMID on "Informatics and the teaching of Mathematics in developing countries", Monastir (Tunisia), February 3-7, 1986. Published in the symposium proceedings, M. Amara, N. Boudriga, K. Harzallah, (Eds.), Tunis 1987, 10 p. (in French).
- 1987: The discovery of a mathematical writing of al-Hassâr (XIIth century): The book I of al-Kâmil, *Historia Mathematica*, 1987, 14, p. 147-158. (in French)¹⁹.
- 1987: Combinatorial analysis in the Maghreb between the twelfth and fourteenth centuries, *Cahiers d'Histoire et de Philosophie des Sciences*, J. Dhombres (ed.), n°. 20 (1987), p. 232-239.
- 1988: *Some aspects of Algebra in the muslim western Arabic mathematical tradition*. Paper presented at the 1st Maghrebin conference on "the History of Arabic Mathematics", Algiers, December 1-3, 1986. Published in the conference proceedings, Maison du Livre, Algiers, 1988, p. 99-123.
- 1988: *Some aspects of Algebra in the eastern Arabic mathematical tradition*. Paper presented at the summer school of Toulouse (France), July 6-12, 1986. Published in the summer school proceedings, Toulouse, IREM, 1988 p. 259-286.
- 1990: *Some new data on the Arabic mathematical activities in the eastern Maghrib (IX-XVIth centuries)*. Paper presented at the 2nd Maghribian conference on "the History of Arabic Mathematics", Tunis, December 1-3, 1988. Published in the conference proceedings, University of Tunis I-I.S.E.F.C.- A.T.S.M., Tunis, 1990, p. 53 -73.
- 1991: *Mathematics and Linguistics in the Arab Middle Ages, the Example of Combinatorial Analysis in the Maghreb*, Proceedings of the Colloquium "The Middle Ages and Science" (Orléans, 22-23 April 1988), B. Ribemont (ed.) : *The Middle Ages and Science*, Paris, Kincksieck, p. 15-29.

¹⁹ - In collaboration with M. Aballagh (Kenitra University, Morocco).

- 1992: *Fractions processing in the Arabic mathematical tradition in the Maghrib*. In P. Benoit, K. Chemla and J. Ritter (Ed.), *Histoire de fractions, fractions d'histoire*, Birkhauser Verlag, Basle-Boston-Berlin, 1992, Chapter XII, p. 223-245.
- 1992: *Arab, Chinese and Indian World : Some Common Points in the Treatment of Fractional Numbers*, Proceedings of the International Colloquium on the History of Fractions (Paris, January 30-31, 1987), P. Benoit, K. Chemla & J. Ritter (eds.): *History of fractions, fractions of history*, Basel-Boston-Berlin, Birkhäuser Verlag, p. 263-276.
- 1992c : *Some aspects of the Arab mathematical tradition in the Extreme Maghreb (XIIth-XVIth centuries)*, Proceedings of the 4th Maghribian Symposium on history of Arabic mathematics (Fez, 2-4 décembre 1992). Non publié. Not published.
- 1993: *About two little-known Mathematicians of the XIth-century Spain: al-Mu'taman and Ibn Sayyid*. In *Vestigia Mathematica, Studies in medieval and early modern mathematics in honour of H.L.L. Busard*, M. Folkerst & J.P. Hogendijk (Eds.), Amsterdam-Atlanta, GA., 1993, p. 79-91.
- 1995: *The mathematical contribution of al-Mu'taman and its influence out of al-Andalus*, Proceedings of the International Symposium on "Eight Centuries of Mathematics in Occitania, from Gerbert and the Arabs to Fermat" (Toulouse, 10-13 December 1992). In J. Cassinet (ed.): *Eight Centuries of Mathematics in Occitania, from Gerbert and the Arabs to Fermat*, Toulouse, C.I.H.S.O., p. 35-46.
- 1996: Review of Aballagh's book: *Raf' al-hijāb 'an wujūh a'ḥm āl al-ḥisāb of Ibn al-Bannā al-Murrākushī (721/1321)* [The Revival of the veil on the operations of the calculation of Ibn al-Bannā of Marrakech], Fez, Publications of the Faculty of Letters and Human Sciences - Dhar al-Mahraz, n° 5, 1994, 360 p. In *Historia Mathematica*.
- 1996: *Some comments on the Arabic versions of Euclid Elements*. Paper presented at the international conference on "Mathematical problems in the Middle Age - Arabic and Latin texts", Wolfenbüttel (Germany), June 18-22, 1990. Published in the conference proceedings: M. FOLKERTS (Eds.), Wiesbaden, Harrassowitz Verlag, 1996, p. 104-111.
- 1996: The Phenomena of Translation and its Role on the Development of scientific Activities in Islamic Countries. Symposium on "the erudite Schools in Turkey", Ankara, 24-29 Avril 1995. Published in the Conference Proceedings, Istanbul, Isis, 1996, p. 93-112.
- 1996: Al-Biruni, scholar and humanist, *Qantara*, (Review of the Institute of the Arab World), Paris, n° 20 (1996), July-August-September, p. 50-51.
- 1996: Arab Science: *Birth, Development and Transmission*, Proceedings of the Days on the History of Science and Technology (Morgat, May 20-24, 1996), Rennes, CRDP of Bretagne (1996), p. 217-235.
- 1996: *Materials for the study of the Arab algebraic tradition (9th-15th centuries)*, Paris, Inter-IREM Commission (1996).
- 1996: Review of Julio Samso 's book: *Islamic Astronomy in Medieval Spain*, Aldershot: Variorum, Collected Studies Series CS428, 1994, xiv + 355 p. In *Revue Internationale d'Histoire des Sciences*.
- 1997: The Arab Medieval Heritage, *Regards*, Nice, n° 21 (February, 1997), p. 23.

- 1997: *Materials for the Study of Inductive and Combinatorial Processes in the Arab Mathematical Tradition (9th-15th Cent.)*, Inter-IREM Commission Workshops, Paris, March (1997).
- 1997: *The writing of the Istikmal of al-Mu'taman (XIth) by Ibn Sartaq an XIII-XIVth mathematician*, *Historia Mathematica*, 24 (1997), p. 185-192.
- 1997: *Transmission and Innovation in Arab Mathematics (8th-14th Centuries)*, *Al-Madar*, Tunis, n° 10 (1997), p. 87-99.
- 1997: *The emergence of the concept of positive real number in the al-Khayyâm's (1048-1131) "Epistle on the explanation of the problematic Premises of the Euclid's Book"*. Introduction and French translation, Paris, Université de Paris-Sud, Prépublications Mathématiques d'Orsay, 1997, n° 97-38.
- 1997: *Birth, development and circulation of Arab Algebra around the Mediterranean*, *Al-Madar*, Tunis, n° 10 (1997), p. 117-143.
- 1997: *Arabic Linguistics and Mathematics in the Middle Ages: An Example of Reciprocal Influences*, *Al-Madar*, Tunis, n° 10 (1997), p. 205-219.
- 1998: *The Euclidean arithmetic tradition in the Kitāb al-Istikmāl of al-Mu'taman and its extensions in Andalus and Maghreb*, *Proceedings of the 5th Maghreb Colloquium on the History of Arab Mathematics (Tunis, 1-3 December 1994)*, Tunis, ATSM, p. 62-84.
- 1998: *Mathematic activities in the Central Maghreb (XII-XIXth centuries)*. Paper presented at the 3rd Maghrebin conference on "The History of Arabic Mathematics" Algiers, December 1-3, 1990. Published in the Conference Proceedings, Algier, Office des Publications Universitaires, 1998, p. 73-115.
- 1998: *The geometrical Reasoning in the mathematical arabic Tradition (IX-XVth c.)*, International Conference on "The geometrical Reasoning, Teaching and Training, Marrakech, 28-30 May 1997. Published in the Conference Proceedings, Marrakech, Imprimerie Walili, 1998, p. 89-121.
- 1998: *Abu Bakr Ibn Bajja and Mathematics of his time*, in: *Homage to Jamal al-Din Alaoui: Philosophical and Sociological Studies dedicated to Jamal al-Din Alaoui*, Publications of the University of Fez, Department of Philosophy, Sociology and Psychology, Special n° 14 (1998), Fez, Infoprint, p. 5-26.
- 1998: *The crazy saga of Algebra*, *Science & Vie Junior*, Paris, Special issue, December 1998, p. 34-41.
- 1998: *Omar Khayyam, the maths poet*, *Science & Vie Junior*, Paris, special issue, December, p. 42-43.
- 1998: Review of Sesiano's book: *A medieval treatise on magic squares, the harmonious arrangement of numbers*, Lausanne, Presses Polytechniques et Universitaires Romandes, 1996, 208 p. In *International Journal of History of Science*.
- 1999: *Scientific contacts and exchanges in the Mediterranean*, *Proceedings of the Winter University of the Cité des Sciences (Douze, Tunisia, 27-29 December 1997)*. In *Al-Madâr* (review of the Tunis City Science Center), Tunis, n° 12 (1999), p. 81-100.
- 1999: *Les Mathematics in the Ibn Sina's Work (370/980-428/1037)*, *Proceedings of the Avicenne's Days (Marrakech, 25-26 september 1998)*, Marrakech, G. I. E. S., 1999, p. 51-70.

- 1999: *The Arab phase of Algebra*, Proceedings of the Tunisian National Seminar on the Teaching of the History of Sciences (Tunis, May 10-15, 1999), Paris, Paris-Sud University, G.H.D.S.O. Publications, (1999), p. 25-73.
- 1999: The Arithmetical Books of Euclid's Elements in a Book of the XIth century: the *Kitāb al-istikmāl* of al-Mu'taman (m. 1085), *Lull* (Saragosse), Vol. 22, n° 45 (1999), p. 589-653.
- 2000: *The arabic scientific Production, its Diffusion et its Acceptance during the Crusades: the Example of Mathematics*, Proceedings of the International Conference on « *West and Near East: Scientific Contacts during the Crusades* » (Louvain-la-Neuve, 24-25 mars 1997), I. Draelants, A. Tihon & B. van den Abeele (Eds.), Brepols, 2000, p. 343-368.
- 2000: *Mathematical activities in the Maghrib at the Ottoman period (XVI-XIXth centuries)*, Proceedings of the XXth International Congress of History of Science (Liège, 20-26 july 1997), Liège, Brepols Publishers, 2000, p. 49-66.
- 2000: *Mathematics in the Maghreb of today: their teaching in connection with their history*, Proceedings of the Symposium on "Didactics in the teaching of mathematics" (Casablanca, 29-31 May 1996), Casablanca, ENS, (2000), p. 74-106.
- 2000: The number, the root and the money, *Cahiers de Science et Vie*, April 2000, n ° 56, p. 42-48.
- 2000: Omar Khayyâm and the mathematical Activities in Islamic countries during the XIth-XIIth centuries, *Farhang* (Teheran), Vol. 12 (2000), n° 29-32, p. 1-31.
- 2000: Recreations in Mathematics of the Muslim World, *La Recherche*, Special Issue, May-June 2000, p. 70-72.
- 2000: An algebraic poet, *Cahiers de Science et Vie*, April, n ° 56 (2000), p. 50-55.
- 2000: *The Place and the Role of the Imagination in the mathematical Activities in the medieval arabic Tradition*, Proceedings of the International Conference on "Imagination and Sciences" (Rabat, 1998), A. Benmaïssa (Eds.), Rabat, Publications de la Faculté des Lettres et des Sciences Humaines, 2000, p. 153-176.
- 2000 : *Measurement in the mathematical tradition of al-Andalus: the example of the Epistle of Ibn ʿAbdūn*, Proceedings of the 6th Maghribian Symposium on history of Arabic mathematics (Algier, 2-4 décembre 2000). Not published.
- 2001: Remarks about the History of Euclid's Elements Text, *Archives for the History of Sciences*, n° 55 (2001), p. 221-295²⁰.
- 2001: *The Transactions in the arabic Mathematics: classification, resolution and circulation*, Proceedings of the International Conference on « *Trade and Mathematics from the Middle Age to Renaissance around the Mediterranean Sea* » (Beaumont de Lomagne, 13-16 mai 1999), Toulouse (France), Editions du C.I.H.S.O, 2001, p. 327-344.
- 2001: *The Arabic Phase of the History of Algebra*, Proceedings of the 3rd European Summer University on « *History and Epistemology in the Mathematical Education* » (Louvain la Neuve, 15-18 juillet 1999), Louvain, Université Catholique de Louvain, 2001, volume 2, p. 203-217.
- 2001: *Scholarship Practices and Traditional Knowledge in the Islamic Countries: The exemple of Exact Sciences*, Proceedings of the International Conference on "Science and

²⁰ - In collaboration with B. Vitrac and S. Rommevaux (Paris, C.N.R.S.).

- Tradition: Roots and wings for Development*", (Académie Royale des Sciences d'Outre Mer & UNESCO, Bruxelles, 5-6 avril 2001), Bruxelles, 2001, p. 62-86.
- 2002: The manuscript (found) of Zaragoza, *Alliage*, n° 47 (2002), p. 66-71.
- 2002: Al-Khayyam's Epistle on « The explanation of the problematic Introductions of the Euclid's Book », *Fahrang* (Téhéran), Vol. 14, n° 39-40 (2002), p. 79-136.
- 2002: *Mathematics Circulation between East and West Muslim Countries: Old Queries and new Elements*, Proceedings of the International Conference on "From China to Paris: 2000 Years Transmission of Mathematical Ideas" (Bellagio, Italie, 8-12 mai 2000), Y. Dold-Samplonius, J. W. Dauben, M. Folkerts et B. van Dalen (Eds.), Stuttgart, Steiner Verlag, 2002, p. 213-236.
- 2003: From the time when mathematics was spoken in Arabic, *Nouvelles d'Archimède*, Journal of the University of Lille 1, n° 32 (January-March 2003), p. 14-15.
- 2003: Mathematical activities in the Maghreb through the testimony of Ibn Khaldûn, Acts of the days on « sciences in the phase of decline » (Marrakech, 8-11 février 2001), Rabat, Faculté des Lettres et Sciences Humaines, 2003, p. 7-22.
- 2003: The greatest scientists in the world (Interview), *L'Histoire*, Paris, n° 272 (January 2003), p. 48-51.
- 2003: Islamic Science: Birth and Development through the Example of Mathematics, Ayene-ye Miras [Heritage Mirror], Quarterly Journal of Book Review, Tehran, New series, Vol. 5, n° 4 (2003), p. 27-50.
- 2003: Some examples of scholies in the Arabic tradition of the Elements of Euclide, *Revue d'Histoire des Sciences*, n° 56/2 (2003), p. 293-321.
- 2003: Medieval mathematical activities, an example of scientific and intercultural exchanges in the Mediterranean Sea. In E. Gallo, L. Giacardi & O. Robutti (Eds.): *Conferenze e Seminari 2002-2003*, Publication of the Seminario di Storia delle Matematiche « Tullio Viola », Turin, 2003, p. 287-308.
- 2003: Mathematics and society through a maghrebian writing of the XIVth century, Proceedings of the International conference "From China to Occitanie, ways between arithmetic and algebra" (Toulouse, 22-24 septembre 2000), Toulouse, Editions du C.I.H.S.O., 2003, p. 29-54.
- 2003: *Mathematical activities in Andalus and their prolongation in the Maghrib (IX-XVth centuries)*, Days of the Catalan Society of History of Sciences and Technology (Barcelone, 15-17 novembre 2002), Barcelone, Societat Catalana d'Historia de la Ciència i la tècnica, 2003, p. 87-112.
- 2003: Nasîr ad-Dîn at-Tûsî, a polygraph scientist of the XIIIth century, *Revue Farhang* (Tehran), 2003, p. 159-181.
- 2003: Human rights, culture and society: the example of Algeria. In L. Koch-Miramond & G. Toulouse: Scientists and Human Rights, Paris, Editions of the House of the Sciences of Man, p. 35-41.
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- 2010: Al-Mu'taman. In J. Lirola Delgado (dir. & ed.): *Biblioteca de al-Andalus*, 2010.
- 2018 : Las matemáticas en al-Andalus y su influencia en El Magreb (Siglos VIII-XV) [Mathematics in Andalus and their influence in the Maghreb (VIIIth-XVth)], *Awraq*, n° 17-18 (2017-2018), pp. 79-94.

IN ITALIAN

- 2007: *Una panoramica della matematica araba*. In C. Bartocci & P. Odifreddi (édit.): *La matematica: I luoghi e i tempi*, Turin, Einaudi, 2007, p. 177-208.
- 2008 : *Matematiche e Culture nei Paesi Islamici. Un Esempio di Relazioni Multiformi*. In F. Ferrara, L. Giacardi & M. Mosca (eds.) : *Conferenze e Seminari 2007-2008*, Associazione Subalpina Mathesis, Torino, Kim Williams Books, pp. 231-234.
- 2013: *Gli scambi scientifici e culturali tra le rive del Mediterraneo: dalle lezioni del passato alle sfide del presente*. Atti del Convegno di Studi Torino, Comando per la Formazione e Scuola di Applicazione dell'Esercito (Turin, 16 novembre 2012). In L. Giacardi (ed.): *Euro-Mediterraneo: un sogno possibile ?*, Turin, Centro Studi Piemontesi, 2013, p. 43-75.

IN TURKISH

- 1999: İbni Haldun'un hayatında ve eserlerinde rasyonel bilimler, *Bilim ve Ütopya*, İstanbul (mars), pp. 10-13.
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IN PORTUGUESE

- 2004: *O Raciocínio geométrico na tradição matemática árabe (sécs. IX-XV)*, Cadernos do GHTM, Lisbonne, p. 1-16.

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2006: Mathematische Gedichte, *Spektrum der Wissenschaft*, Special issue 2, 2006, p. 38-39.

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SUPERVISOR OR MEMBER OF JURY OF MAGISTER, MASTER, DOCTORATS OR HABILITATION

HABILITATIONS

- 1.- Youcef GUERGOUR: University of Annaba (Algeria), 2008. (Director)
- 2.- Abdelmalek BOUZARI: University of Constantine (Algeria), 2010. (Director)
- 3.- Agnès CHARPENTIER: Université de Versailles Saint Quentin, 2012. (Member of the Jury)
- 4.- Anissa HARBILI: Ecole Normale Supérieure, Kouba (Algiers, Algeria), 2018. (Director)
- 5.- Marc MOYON: Université de Limoges, 2019. (Member of the Jury)

DOCTORATS

- 1.- Mohamed ABALLAGH: *Raf' al-hijâb of Ibn al-Bannâ*. D. Sc. Thesis. University of Paris I-Panthéon-Sorbonne, 1988²⁷.
- 2.- Maryvonne SPIESSER: *Between Theory and Practice: The Compendy de la Practique des nombres of Barthelemy de Romans and Mathieu Préhoude (1471), Mathematical, linguistically and cultural aspects*, Toulouse, Université Paul Sabatier Toulouse III, 1999. (Member of the Jury).
- 3.- Marie-Hélène LABARTHE: *First printed arithmetic of Spain: a hierarchy of problems in service of solving processes*, Toulouse, Université Paul Sabatier Toulouse III. (Member of the Jury).
- 4.- Ezzaïm LAABID: *Mathematical techniques in solving the problems of inheritance in the medieval Maghreb through al-Hûfi's al-Mukhtasar (d. 1192): Sources and extensions*, Université de Rabat, Faculté des Sciences de l'Education, 2006 (co-Director)²⁸.
- 5.- Youcef GUERGOUR: *Euclidean geometry in the Muslim West through Kitâb al-istikmâl of al-Mu'taman (XIth c.)*, Université d'Annaba, Faculté de mathématiques. (Director)
- 6.- Mohand Akli HADIBI: *The study group on the history of mathematics in Bejaia. An independent Association, researching the heritage of a city and its province in Algeria today*, Paris, Ecole des Hautes Etudes en Sciences Sociales, 2006 (President of the Jury).

²⁷ - Codirection with Prof. G. Beaujouan (Ecole des Hautes Etudes en Sciences Sociales, Paris).

²⁸- Codirection with Prof. D. Lamrabet (Mohamed V University, Rabat, Morocco).

- 7.- Abdelmalek BOUZARI: *The geometry of Conics in the tradition of the Muslim West through the Kitāb al-istikmāl [Book of accomplishment] of al-Mu'taman (d. 1085)*, Université de Lille 1, 2008 (Director).
- 8.- Marc MOYON: *Practical geometry in Europe in relation to the Arab tradition, the example of measuring and cutting: Contribution to the study of medieval mathematics*, Lille, Université des Sciences et des Technologies de Lille, 2008 (Director).
- 9.- Yassine KARAMTI: *Heritage management and Otherness: An Essay on the museology of memories between two shores*, Paris, Muséum d'Histoire Naturelle, 2008 (President of the Jury).
- 10.- Christophe HEBEISEN: *The algebra of al- Karajî's Badi^c*, Lausanne, Ecole Polytechnique de Lausanne, 2008 (Member of the Jury).
- 11.- Hamid Reza GIAHI-YAZDI: *The theory of solar eclipses in Eastern scholars of the Muslim empire (Ninth to the early eleventh century): Contribution to the study of Islamic period of astronomy*, Lille, Université des Sciences et des Technologies de Lille, 2009 (Director).
- 12.- Anissa HARBILI: *Approximation processes in mathematical writings of the Maghreb and al-Andalus (tenth to fifteenth centuries): contribution to the study of the mathematical tradition of the Muslim West*, D., Annaba, Université Badji Mokhtar, 2012 (Director).
- 13.- Sidi Amar ASSALI: *The geometry of projections in the "Book on how to project the sphere onto the plane of the astrolabe" of as-Sâghânî: contribution to the study of mathematical tools of Arabic astronomy*, Sétif, Université Ferhat Abbas, 2012 (Director).
- 14.- Touhami ZEMOULI: *The algorithms of calculation in the Maghreb: Contribution in the study of mathematical tradition in the Muslim West*, Alger, Ecole Normale Supérieure, 2018. (Director).
- 15.- Ahmed ABBASSI: *Al-Shamsiyya fî l-hisâb of al-Nisaburi (m 730H / 1329.): Contribution to the study of the Arabic mathematical tradition of Central Asia in the fourteenth century*, Alger, Ecole Normale Supérieure, 2019. (Director).
- 16.- Ouassila GHERABA: *Analysis and transcription of 'Umdat al-hussab of al-Zanjani*. (Director). In progress.
- 17.- Faïza REMAOUN: *Conic sections and measures in Kitāb al-istikmāl of al-Mu'taman (1085 m.): Contribution to the study of Archimedean methods in the Mathematics of al-Andalus*. (Co- Director). In progress.
- 18.- Samiha BELKHEN : *Les mathématiques et la science des héritages en pays d'Islam : L'exemple du Kitāb al-istiḡṣā' wa l-tajnīs fî 'ilm al-ḥisāb d'al-Ḥubūbī* (Co-Directeur). In progress.
- 19.- Kaouthar MAMERI : *Les techniques de mesurage et de décoration Dans le Miftāḥ al-ḥisāb d'al-Kāshī (m. 832 /1429)) : Contribution à l'étude de la tradition géométrique de l'Orient musulman* (Co-Directeur). In progress.

MASTERS OR MAGISTERS

- 1.- Ezzâïm LAABID: *Arithmetic and Algebra transmission according to Islam. Two examples: al-Hubûbî book (Xth-XIth centuries) and current practise in Morocco*. Master's Thesis. Montreal University, 1990. (in French)²⁹.
- 2.- Youcef GUERGOUR: *The Mathematical Writings of Ibn Qunfudh(1339-1409)*. Magister's Thesis, Algiers, National School for Higher Education, 1990. (in Arabic).
- 3.- Touhami ZEMOULI: *The Mathematical Writings of Ibn al-Yâsamîn (d. 1204)*. Magister's Thesis, Algiers, National School for Higher Education, 1993. (in Arabic).
- 4.- Anissa HARBILI: *The Teaching of Mathematics in Tlemcen through the al-Uqbânî's Comment on Ibn al-Bannâ's Talkhîs*. Magister's Thesis, Algiers, National School for Higher Education, 1997. (in French).
- 5.- Youcef BENREBIA: *Geometrical Instruments in the Arab mathematical Tradition*. Magister's Thesis, Algiers, National School for Higher Education, 1998. (in Arabic).
- 6.- Abdelmalek BOUZARI: *The Conics in the Arabic Mathematics through a work allotted to al-Khâzin (Xth c.)*. Magister's Thesis, Algiers, National School for Higher Education, 1999. (in French).
- 7.- Khadidja KOUIDRI: *Methods of false position in the Arabic Mathematics*. Magister's Thesis, Algiers, National School for Higher Education, 1999. (in Arabic).
- 8.- Mustapha ABDELKADER-KHADDAOUI: *The Arithmetical Algorithms in The Arabic Mathematical Tradition*, Magister's Thesis, Algiers, National School for Higher Education, 1999. (in Arabic).
- 9.- Moktadir ZERROUKI: *Mathematics and legacies through the commentaries by al-Uqbani of the Mukhtasar of al-Hufî*, Magister's Thesis, Alger, E.N.S., 2000. (in Arabic).
- 10.- Sidi Amar ASSALI: *The mathematical tools in the astronomical work of al-al-Hasan Murrakushi (XIIIth c.)*, Magister's Thesis, Alger, E.N.S., 2000. (in Arabic).
- 11.- Ahmed ABASSI: *The calculation of the nth root of a number in al-Hasan al-Nisaburi (XIVth c.)*, Magister's Thesis, Alger, E.N.S., 2010. (in Arabic).
- 12.- Fatih AZEDDINE: *The measure of the circle in the Arab mathematical tradition: From Banu Musa to Nasir al-Din al-Tusi*, Magister's Thesis, Alger, E.N.S., 2013. (in Arabic).
- 13.- Nour El Houda TAÏBI: *Mathematics and society in the Maghreb: the example of Tanbih al-albab of Ibn al-Banna*, Magister's Thesis, Alger, E.N.S., 2015. In progress. (in Arabic).

ORGANIZATION OF SYMPOSIUM

- 1986: 1st Maghrebian Symposium on the History of Arab Mathematics: Algiers, 1-3 December 1986³⁰.
- 1990: International Symposium on "Transmission and Innovation in Arab Mathematics": Paris, 25-27 October 1990³¹.

²⁹- Codirection with Prof. L. Charbonneau (University of Quebec, Montreal, Canada).

³⁰ - In collaboration with the Mathematics Department of the Ecole Normale Supérieure, Algiers.

³¹ - In collaboration with Kh. Jaouiche (C.N.R.S.-Paris) and under the patronage of the UPR 21 of the C.N.R.S. (Prof. Jean Dhombres) and the Institute of the Arab World.

- 1990: 3rd Maghrebien Symposium on the History of Arab Mathematics: Algiers, 1-3 December 1990³².
- 1997: International Symposium on "Science, Industry and Technology in the Ottoman World", 20th International Congress of History of Science, Liège, 20-26 July 1997³³.
- 1998: International Colloquium of Orsay on "Sciences and Development", Paris, Paris-Sud University, May 13-14, 1998³⁴.
- 2000: International Colloquium of Orsay on "Science Education in the 21st Century", Paris, University Paris-Sud, 17-18 May 2000³⁵.
- 2000: International Symposium EM 2000 on the teaching of mathematics in the French speaking area, Grenoble, 15-17 July 2000³⁶.
- 2000: International Day on "The Navigation of Knowledge", Paris, UNESCO, 1 December 2000³⁷.
- 2005: International Symposium on "Teaching the History of Science in Universities in Muslim Countries", Paris, UNESCO, 15-16 December 2005³⁸.
- 2006: International Symposium on "Science in Islamic Countries", Paris, UNESCO, 16-17 March 2006.
- 2015: EMF 2015, International Symposium on Mathematics Education in the French speaking area, Algiers, 10-15 October 2015³⁹.
- 2013: Symposium on "*The institutionalization of mathematics and the founding of national societies*", 24th International Congress of History of Science, Technology and Medicine (Manchester, 21-28 July 2013)⁴⁰.

32 - In collaboration with the Algerian Association of History of Mathematics.

33 - In collaboration with Prof. E. Ihsanoğlu (Istanbul University).

34 - Member of the Program Committee and the Organizing Committee.

35 - Member of the Program Committee and the Organizing Committee.

36 - Member of the Program Committee.

37 - Co-Organizer.

38 - Co-Organizer.

39 - President of the Scientific Committee.

40 - In collaboration with Prof. L. Saraiva (Lisbonne University)

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