

## **ALLEGATO B**

**UNIVERSITÀ DEGLI STUDI DI MILANO**

**selezione pubblica per n. 1 posto di Ricercatore a tempo determinato in tenure track (RTT)**

**per il settore concorsuale 01/B1 - Informatica, settore scientifico-disciplinare INF/01 - Informatica,**

**presso il Dipartimento di Dipartimento di INFORMATICA "GIOVANNI DEGLI ANTONI",**

**(avviso bando pubblicato sulla G.U. n. 97 del 22-12-2023 Codice concorso 5471)**

## **Maria Mannone** **CURRICULUM VITAE**

### **INFORMAZIONI PERSONALI**

<b>COGNOME</b>	<b>MANNONE</b>
<b>NOME</b>	<b>MARIA (NOME COMPLETO: MARIA CATERINA)</b>
<b>DATA DI NASCITA</b>	<b>18 OTTOBRE 1985</b>
<b>INDIRIZZI MAIL</b>	PEC <a href="mailto:MARIA.MANNONE.85@PEC.IT">MARIA.MANNONE.85@PEC.IT</a> EMAIL <a href="mailto:MARIACATERINA.MANNONE@UNIPA.IT">MARIACATERINA.MANNONE@UNIPA.IT</a> ; <a href="mailto:MARIA.MANNONE@UNIVE.IT">MARIA.MANNONE@UNIVE.IT</a> ; <a href="mailto:MANNO012@UMN.EDU">MANNO012@UMN.EDU</a>

## **TITOLI**

### **TITOLO DI STUDIO**

#### **Ph.D. Doctor of Philosophy**

**Composition, University of Minnesota, May 6 2017**

**Equipollente al dottorato italiano, protocollo n. 000036, January 22, 2020**

Titolo della tesi: “Musical Gestures between Scores and Acoustics: A Creative Application to Orchestra”

*Doctoral committee: Prof. Alex Lubet (advisor, composer), Prof. Mikhail Shifman (theoretical physicist, Dirac medalist), Prof. David Walsh (Opera director), Prof. Maja Radovanlija (music performer).*

#### **Laurea Magistrale in Fisica Teorica**

Università degli Studi di Palermo, 3/28/2012; voto: 110/110 *summa cum laude*, e menzione della tesi per il Premio Gugino.

Titolo della tesi: “Non-Markovianità in sistemi quantistici aperti sotto l’azione di Random External Fields e in presenza di decadimento”.

#### **Master 2 ATIAM (Acoustics, Signal Processing and Computer Science applied to Music), equipollente alla Laurea Magistrale**

IRCAM – UPMC Paris VI Sorbonne, 9/9/201

Titolo della tesi: “Segmentation de series temporelles pour l’orchestration automatique.”

#### **Diploma in Direzione d’Orchestra** (Diploma V.O., equiparato alla Laurea Magistrale)

Conservatorio di Musica “Vincenzo Bellini”, Palermo, 7/4/2012; Marks: 10/10. *Advisor: Prof. Carmelo Caruso*

#### **Diploma in Composizione** (Diploma V.O., equiparato alla Laurea Magistrale)

Conservatorio di Musica “Vincenzo Bellini”, Palermo, 10/1/2009; voto: 9/10.

#### **Diploma in Pianoforte** (Diploma V.O., equiparato alla Laurea Magistrale)

Conservatorio di Musica “Vincenzo Bellini”, Palermo, 9/25/2008; voto: 10/10.

#### **Laurea in Fisica**

Università degli Studi di Palermo, 11/12/2009; voto: 97/110

Titolo della tesi: “Dinamica di violazione delle diseguglianze di Bell – Mermin in sistemi quantistici aperti”.

### **CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI**

- Postdoc (Assegno di ricerca), project DC-REN, Ca’ Foscari University of Venice, September 8 2020 - August 31 2021
- Postdoc (Assegno di ricerca), project ARES, University of Palermo, December 1 2021 - November 30 2022
- Fellowship (borsa di studio), project ARES, University of Palermo, March 1 2022 - August 31 2023

## ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

Corso "INFORMATION PROCESSING SYSTEMS IN NEUROSCIENCE," (ING-INF 05), Dipartimento dpi Biomedicina, Neuroscienze e Diagnostica Avanzata, Università di Palermo, marzo - maggio 2023, **corso di Laurea Magistrale in Neurosciences, 6 CFU (56 ore) ING-INF-05, INF-01**

Laboratorio F "Specchi, Suoni e Immagini", marzo - maggio 2021, Università di Palermo, DAMS, online, 3 CFU **(25 ore)**

Informatica Musicale (corso del prof. Chella), Esercitazioni, marzo - maggio 2021, Università di Palermo, DAMS (online)

"Robot nell'arte, nella società e nella medicina", 15 ore, Liceo Classico "G. Meli", Palermo, November - December 2022

Italian Coaching for Opera singers for "Gianni Schicchi" and "Suor Angelica," Spring 2017

Substituting teaching Italian Diction Class, University of Minnesota School of Music, April 2017

Substituting teaching Orchestration Class, University of Minnesota School of Music, November 2016

Substituting teaching "How to Write a Scientific Book about Music," University of Minnesota School of Music, February and March 2016

Substituting teaching "Performance Theory," University of Minnesota School of Music, February and March 2016

Substituting teaching "Music Informatics," University of Minnesota School of Music, February and March 2016

Teaching-assistantship as Italian coach for Opera Workshop, Fall 2015 and Spring 2016

Teaching-assistantship as Italian coach for Opera singers in "Le Nozze di Figaro," University of Minnesota School of Music, Minneapolis, Spring 2015

Substituting teaching "Mathematics for Music Theorists," University of Minnesota School of Music, September 2015

Teaching-assistantship (TA) at University of Minnesota School of Music, Contemporary Music Workshop, Fall 2014

Private piano class in Paris (as volunteering), also to a child affected by autism (2013-14)

Teaching in the course of *The theory, the listening, the analysis, the history of music* in the project *Sounds, gestures, words of women and men, a bridge in the Mediterranean Sea*, Liceo Classico Statale "G. Meli," Palermo (Italy), 2011

Composition Teaching-Assistantship, Music Conservatory "Vincenzo Bellini," Palermo (Italy), 2009-2011

Piano Teaching-Assistantship, Music Conservatory "Vincenzo Bellini," Palermo (Italy), 2008-2010

## DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

PhD: University of Minnesota, September 2014 - May 2017

ATIAM MSc: IRCAM - UPMC Paris VI Sorbonne, September 2012 - September 2013

Invited research visits:

- Research Studios Austria Forschungsgesellschaft, Salzburg, Austria, January 2020

- Fondazione Cini, Isola di San Giorgio, Venezia, Italy, November 2019
- Fondazione Cini, Isola di San Giorgio, Venezia, Italy, November 2019 Tohoku University, Research Institute of Electrical Communication, Sendai, Japan, February 2019
- University of Greenwich, London, UK, October 2018
- University of Greenwich, London, UK, October 2018
- Queen Mary University of London, London, UK, October 2018
- Open University, Milton Keynes, UK, October 2018
- Goldsmiths University, London, UK, January 2018
- Tohoku University, Research Institute of Electrical Communication, Sendai, Japan, November 2017
- Tohoku University, Research Institute of Electrical Communication, Sendai, Japan, June 2017
- Northern Kentucky University, Math Department, USA, April 2017

## ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, ecc.)

*Identifying typical trajectories in longitudinal data: a case of study for patients affected by diabetic kidney disease*, co-presented with V. Distefano, Applied Statistics '23, Koper (Capodistria), Slovenia, September 25 2023

*Entangled Gondolas: Design of Multi-Layer Networks of Quantum-Driven Robotic Swarms*. In collaboration with N. Marwan, P. Fazio, A. Giacometti, A. Chella, V. Seidita, A. Chella. WIVACE Workshop, Venice, September 6, 2023

*Energy and SNR-Aware Robotic Swarm Coordination for Aquatic Cleaning Operations*, VTC, co-presented with P. Fazio, 2023 IEEE 97th Vehicular Technology Conference, Florence, June 22 2023

*Mathematics for Timbre and Color, Timbre for Data Analysis*. Symposium “Timbre Topologies – Perceptual and Conceptual Spaces,” Zurich University of the Arts, Zürcher Hochschule der Künste, February 3, 2023

*Math as Pleasure, Math as Bridge* (video participation). Joint Mathematics Meetings 2023, Boston, USA, January 7, 2023

*Sonification and Clustering: a Multi-Sensory Perspective for Precision Medicine*. Video, online for Stockholm. In collaboration with V. Distefano. Conference on Sonification of Health and Environmental Data (SoniHED 2022), November 2022

*Quantum RoboSound*. In collaboration with V. Seidita and A. Chella. Naples, August 30 2022, IEEE RO-MAN conference

*Hypercube + Rubik's Cube + Music = HyperCubeHarmonic*. In collaboration with Y. Takashi, P. Chiu, and Y. Kitamura. Mathematics and Computation in Music, Atlanta, June 24 2022

*Some Mathematical and Computational Relations Between Timbre and Color*. In collaboration with J. S. Arias-Valero), Mathematics and Computation in Music, Atlanta, June 22 2022

*CubeHarmonic: when the Rubik's cube becomes a musical instrument*. Joint Mathematics Meetings, Seattle (rescheduled online), April 2022

*Quantum of Sound, the Sound of Quanta*. In collaboration with Prof. Davide Rocchesso. 1st International Symposium on Quantum Computing and Musical Creativity. November 19, 2021

*Clustering longitudinal data with category theory for diabetic kidney disease*. CLADAG conference. Italy (online), September 9, 2021

*Category-Inspired Diabetic Kidney Disease Trajectory Clusterings*. DSSV conference. Nederland (online), July 7, 2021

*Color and Timbre Gestures*. Workshop on Mathematics and Music. University of Pavia (online), June 28, 2021

*Categories and Clusters to investigate Similarities in Diabetic Kidney Disease Patients*. SIS, Pisa (online), June 22, 2021

*Trees and Symphonies: Music and Mathematics to Navigate through Natural Complexity*, XVI Convegno di Analisi e Teoria Musicale, October 12, 2019, Rimini, Italy

*Have Fun with Math and Music!*, Mathematics and Computation in Music 2019, Universidad Politécnica de Madrid (UPM), June 20 2019, Madrid, Spain

*Shall We (Math and) Dance?* (co-authored with L. Turchet), Mathematics and Computation in Music 2019, Universidad Politécnica de Madrid (UPM), June 18 2019, Madrid, Spain

*Categories, Musical Instruments, and Drawings: A Unification Dream* (co-authored with F. Favali), Mathematics and Computation in Music 2019, Universidad Politécnica de Madrid (UPM), June 18 2019, Madrid, Spain

*Natural and Mathematical Forms and Transformations in Music*, International Workshop of Composition, Alba Music Festival, May 29 2019, Alba, Italy

*Strutture condivise e trasformazioni in matematica e musica: dalle categorie alla musicologia* (with F. Favali), video with my voice, slides, and pictures, ESCOM Giornata di studio italiana, campus Trigoria, Roma, June 28 2018

*Categories and Arts: Some cARTegory Theory of Music and Visual Arts*, January 10 2018, Joint Mathematics Meetings, special session on Mathematics and the Arts, San Diego, USA

*Forme nella natura e nella musica: uno sguardo matematico*. Scienza è Musica, University of Padova (online), April 30, 2021. [https://www.facebook.com/watch/live/?v=479479193103028&ref=watch\\_permalink](https://www.facebook.com/watch/live/?v=479479193103028&ref=watch_permalink)

*Categories, Color Gestures, and the “Souvenir Theorem”: using Math to navigate the Complexity of Music and the Visual Arts*, January 8 2021, Joint Mathematics Meetings, special session on Mathematics and Music (online) — USA

*Category Theory and Compositional Music Interaction*, Interactive Music Technology, International Workshop Conference on Digital Intelligence and Aware Systems, January 23 2020, Salzburg, Austria

*Klein Concert: A Report from a Math-Musical Classroom Experience*, January 17 2020, Joint Mathematics Meetings, special session on Mathematics and the Arts, Denver, USA

*Can Beauty be Translated? A Journey between Mathematics, Music, and Nature*, November 7 2019, Laser Nomad Palermo, University of Palermo, Italy

*Natural Roots and Mathematical Abstraction: Algorithms and Beauty in Music*, Symposium on Art and Computers, October 15, 2019, Venezia, Italy

*Trees and Symphonies: Music and Mathematics to Navigate through Natural Complexity*, XVI Convegno di Analisi e Teoria Musicale, October 12, 2019, Rimini, Italy

*Gesture, Music, and Categories: The Abstraction of Math meets the Variety of Expression*, Workshop “Linguistic investigations beyond language: gestures, body movement and primate linguistics,” March 11 2019, Leibniz-Zentrum Allgemeine Sprachwissenschaft, Berlin, Germany

## CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA

- **Medalist: Lotze Prize**, Berlin, Humboldt University, July 2022
- Drawing “Venetian aMazing Recursions” selected and included in the Mathematical Imagery Calendar 2022 of the American Mathematical Society (AMS)
- Special Mention at the “Creatività Quantistica” (Quantum Creativity) competition, Italian Quantum Weeks, 2022
- University of Minnesota, Doctoral Dissertation Fellowship, 2016
- U of M, Interdisciplinary Doctoral Fellowship, Fine Institute of Theoretical Physics, 2015
- U of M, School of Music Fellowship, 2014

## **PRODUZIONE SCIENTIFICA**

### **PUBBLICAZIONI SCIENTIFICHE**

#### **LIBRI**

F. Favali and **M. Mannone** (editors and translators), “Simmetrie fra Matematica e Musica,” selection and translation into Italian of English articles on music and symmetry, Palermo University Press/New Digital Frontiers, I quaderni di Clio no. 3, 2020

**M. Mannone**, *Mathematics, Nature, Art*, Palermo University Press, Palermo, 2019

G. Mazzola, R. Guitart, J. Ho, A. Lubet, **M. Mannone**, M. Rahaim, F. Thalmann, *The Topos of Music III: Gestures*, Springer Series Computational Music Science, 2018

G. Mazzola, **M. Mannone**, Y. Pang, M. O’ Brien, N. Torunsky, *All About Music: The Complete Ontology: Realities, Semiotics, Communication, and Embodiment*, Springer Series Computational Music Science, 2016

G. Mazzola, **M. Mannone**, Y. Pang, *Cool Math for Hot Music*, Springer Series Computational Music Science, Heidelberg et al., 2016.

**Translated into Chinese:** 酷冷的 数学 和 炽热的 的音乐, Springer & Shanghai Educational Publishing House, 2023

**M. Mannone**, *Dalla Musica all’Immagine, dall’Immagine alla Musica - Relazioni matematiche fra composizione musicale e arte figurative (From Music to Images, from Images to Music – Mathematical relations between musical composition and figurative art)*, Edizioni Compostampa, Palermo, 2011

#### **CAPITOLI DI LIBRO**

**M. Mannone** and F. Jedrzejewski. *Venice, Glass, and Math*. Women in MathArt (editor: Shanna Dobson), Springer, accepted for publication, to appear 2023

**M. Mannone** and D. Rocchesso, *Sing and Measure: Sound as Voice as Quanta*. In: (eds.) Miranda E. R., Quantum Computer Music. Springer, Cham (2022), 297–312. [https://doi.org/10.1007/978-3-031-13909-3\\_12](https://doi.org/10.1007/978-3-031-13909-3_12)

**M. Mannone** and D. Rocchesso, *Quanta in sound, the sound of quanta: a voice-informed quantum theoretical perspective on sound*. In: (eds.) Miranda E. R., Quantum Computing in the Arts and Humanities. Springer, Cham (2022), 193–226. [https://doi.org/10.1007/978-3-030-95538-0\\_6](https://doi.org/10.1007/978-3-030-95538-0_6)

**M. Mannone**, “Theoretical Physics and Category Theory as Tools for Analysis of Musical Performance and Composition,” in *Mathematical Music Theory: Algebraic, Geometric, Combinatorial, Topological and Applied Approaches to Understanding Musical Phenomena*, eds. M. Montiel and R. W. Peck, 215-231, World Scientific, 2018

**M. Mannone**, “Can Mathematical Music Theory be Easily Learnt and also be Fun?” In *Theoretical and Practical Pedagogy of Mathematical Music Theory: Music for Mathematics and Mathematics for Music, From School to Postgraduate Levels*, eds. M. Montiel and F. Gómez, 281-298, World Scientific, 2018

## ARTICOLI SU RIVISTA

V. Distefano, **M. Mannone**, I. Poli, Exploring Heterogeneity with Category and Cluster Analyses for Mixed Data. *Stats* **2023**, 6, 747-762. <https://doi.org/10.3390/stats6030048>

M. Montiel, **M. Mannone**, M. Wilhelmi. *Assessment of mathematical learning in a musical composition workshop applying tools from the onto-semiotic approach*. *Bolema: Boletim de Educação Matemática*, accepted for publication, 2023

**M. Mannone**, V. Seidita, A. Chella. *The Sound of Swarm. Auditory Description of Swarm Robotic Movements*. *ACM Transactions on Human-Robot Interaction*, Volume 12, Issue 4, Article No.: 53, pp. 1–27. <https://dl.acm.org/doi/10.1145/3596203>

**Indexed as Computer Science and Engineering as Q2**

**M. Mannone**, V. Seidita, A. Chella. *Modeling and Designing a Robotic Swarm: a Quantum Computing Approach*. *Swarm and Evolutionary Computation*, 79: 101297, 2023. <https://doi.org/10.1016/j.swevo.2023.101297>. **Indexed as Computer Science and Engineering as Q1**

A. Chella, S. Gaglio, **M. Mannone**, G. Pilato, V. Seidita, F. Vella, S. Zammuto. *Quantum Planner for Swarm Robotics*. *Robotics and Autonomous Systems (RAS)*, 2022, DOI [10.1016/j.robot.2023.104362](https://doi.org/10.1016/j.robot.2023.104362). **Indexed as Computer Science and Engineering as Q1**

**M. Mannone**, V. Distefano, and G. Santini. *Classes of Colors and Timbres: A Clustering Approach*. *Electronic Journal of Statistical Analysis*, 15 (3), 2022, <http://siba-ese.unisalento.it/index.php/ejasa/article/view/25173/21936>.

**M. Mannone** and M. Montiel. *Atlanta: Mathematics and Music*. *Journal of Mathematics and the Arts*, 16 (4), 374-38, 2022. <https://doi.org/10.1080/17513472.2022.2137890>

**M. Mannone** and G. Compagno. *Characterization of the degree of Musical non-Markovianity*. *Journal of Creative Musical Systems*, 2022, <https://www.jcms.org.uk/article/id/975/>. Former version: 2013, <https://arxiv.org/abs/1306.0229>

**M. Mannone** and V. Seidita. *Quantum Creativity of Humans and Robots*, *Journal of Artificial Intelligence and Consciousness*, 9 (3), 2022, 1–16, DOI: 10.1142/S2705078522500102.

**M. Mannone** and T. Yoshino. *Temari Balls, Spheres, SphereHarmonic: from Japanese Folkcraft to Music*. *Algorithms*, 2022, <https://doi.org/10.3390/a15080286> **Indexed as Computer Science; Q2 for Computational Mathematics**

**M. Mannone**, V. Seidita, and A. Chella. *Categories, Quantum Computing, and Swarm Robotics: A Case Study*. *Mathematics*, 2022, 10(3): 372. <https://www.mdpi.com/2227-7390/10/3/372> **Q1 in Mathematics, according to Clarivate, Q2 according to Scimago**

**M. Mannone**, G. Santini, E. Adedoyin, and C. E. Cella. *Color and Timbre Gestures: an Approach with Bicategories and Bigroupoids*. *Mathematics*, 2022, 10(4): 663. <https://www.mdpi.com/2227-7390/10/4/663> **Q1 in Mathematics, according to Clarivate, Q2 according to Scimago**

**M. Mannone**. “*Mirrors*.” *Women and Music: A Journal of Gender and Culture* 25 (2021): 87-89. doi:10.1353/wam.2021.0006.

**M. Mannone**. *Reversing Arrows: Duality*. *Journal of Mathematics and the Arts*, 2021. DOI:10.1080/17513472.2021.1979910



**M. Mannone.** *A musical reading of a contemporary installation and back: mathematical investigations of patterns in Qwalala.* Journal of Mathematics and Music, 2021, DOI:10.1080/17459737.2021.1871787

**M. Mannone** and F. Favali. *Musical Form and Architectural Structure: Some Considerations on Qwalala.* Context 46 (2020): 35–49 (indexed on the International Index of Music Periodicals)

D. Rocchesso and **M. Mannone.** *A Quantum Vocal Theory of Sound.* Quantum Information Processing, 2020, 19(292) <http://dx.doi.org/10.1007/s11128-020-02772-9>, SJR: 0.610 updated to 2018, H-Index: 51 according to Scimago, <https://doi.org/10.1007/s11128-020-02772-9>, **Q2 in Theoretical Computer Science, according to Scimago**

P. beim Graben and **M. Mannone.** *Musical pitch quantization as an eigenvalue problem.* Journal of Mathematics and Music, 14(3): 329-346, 2020, <https://www.tandfonline.com/doi/abs/10.1080/17459737.2020.1763488> JCR: 0.261, updated to 2018; H-Index: 11 according to Scimago

**M. Mannone** and D. Papageorgiou. *Gestural Similarity, Mathematics, Psychology. Hints from a First Experiment and some Applications between Pedagogy and Research.* Journal of Collected papers of Academy of Arts of Novi Sad (Zbornik radova Akademije umetnosti), Eight Issue, Zbornik, Serbia, 2020, pp. 137-153  
**doi: 10.5937/ZbAkU2008137M. ISSN 2334-8666**

**M. Mannone**, F. Favali, B. Di Donato, and L. Turchet, *Quantum GestART: Identifying and Applying Correlations between Mathematics, Art, and Perceptual Organization.* Journal of Mathematics and Music, 2020, 15:1, 62-94 <https://www.tandfonline.com/doi/abs/10.1080/17459737.2020.1726691> JCR: 0.261, updated to 2018; H-Index: 11 according to Scimago

**M. Mannone**, I. Iaccarino, and R. Iembo, *Dense Geometry of Music and Visual Arts: Vanishing Points, Continuous Tonnetz, and Theremin Performance,* The STEAM Journal, 3 (2), article 15, 2018 <https://scholarship.claremont.edu/steam/vol3/iss2/15/>

**M. Mannone**, *Artist's Statement: Some Parametric Art,* The STEAM Journal, 2018, 3 (2), article 13, 2018 <https://scholarship.claremont.edu/steam/vol3/iss2/13/>

**M. Mannone**, *cARTegory Theory: framing Aesthetics of Mathematics,* Journal of Humanistic Mathematics, 9 (18), 277--294, 2019, <https://scholarship.claremont.edu/jhm/vol9/iss1/16>

**M. Mannone**, E. Kitamura, J. Huang, R. Sugawara, and Y. Kitamura, *Musical Combinatorics, Tonnetz, and the CubeHarmonic,* Journal of Collected papers of Academy of Arts, Sixth Issue, pp. 104-116, Zbornik, Serbia, 2018, <https://scindeks-clanci.ceon.rs/data/pdf/2334-8666/2018/2334-86661806104M.pdf>

**M. Mannone**, *Introduction to Gestural Similarity in Music. An Application of Category Theory to the Orchestra,* Journal of Mathematics and Music, 12 (2), pp. 63-87, 2018, <https://www.tandfonline.com/doi/full/10.1080/17459737.2018.1450902> JCR: 0.261, updated to 2018; H-Index: 11 according to Scimago

**M. Mannone**, *Knots, Music, and DNA,* Journal of Creative Music Systems, March 2018, <https://www.jcms.org.uk/article/id/523/>  
Indexed on SCOPUS

**M. Mannone**, K. Gkoudina, E. Tyler, *Narrating the Origin of the Universe through the Music: a Case Study*, Journal of Collected papers of Academy of Arts of Novi Sad, Fifth Issue, pp. 110-119, Zbornik, Serbia, 2017, <http://scindeks-clanci.ceon.rs/data/pdf/2334-8666/2017/2334-86661705110M.pdf>

A video abstract is available: <https://www.youtube.com/watch?v=-Mb6FnGDZiI>

**M. Mannone**, *Networks of Music and Images*, Gli Spazi della Musica, University of Torino, 6 (2), 2017, <http://www.ojs.unito.it/index.php/spazidellamusica/article/view/2528>

**M. Mannone**, *Marco Orsini conducts Music without Seeing*, American Council of the Blind, ACB E-Forum Volume LV June 2017 No.12, <http://acb.org/content/acb-e-forum-volume-lv-june-2017-no-12>

G. Mazzola and **M. Mannone**, *Global Functorial Hypergestures over General Skeleta for Musical Performance*, Journal of Mathematics and Music, 2016, <http://dx.doi.org/10.1080/17459737.2016.1195456>  
JCR: 0.261, updated to 2018; H-Index: 11 according to Scimago

G. Mazzola and **M. Mannone**, *Hegel's Conceptual Group Action on Creative Dynamics in Music*, Gli spazi della musica, University of Torino, 2014, <https://www.ojs.unito.it/index.php/spazidellamusica/article/view/819>

**M. Mannone**, R. Lo Franco and G. Compagno, *Comparison of non-Markovianity criteria in a qubit system under random external fields*, Physica Scripta, Phys. Scr. T153 (2013) 014047, <https://iopscience.iop.org/article/10.1088/0031-8949/2013/T153/014047>

JCR: 0.534, updated to 2018; H-Index: 71 according to Scimago

#### ARTICOLI SU ATTI DI CONVEGNO

**M. Mannone**, N. Marwan, V. Seidita, A. Chella, A. Giacometti, P. Fazio. *Entangled Gondolas. Design of Multi-Layer Networks of Quantum-Driven Robotic Swarms*. In: Marco Villani, Stefano Cagnoni, Roberto Serra (editors), XVII International Workshop on Artificial Life and Evolutionary Name: Computation (WIVACE 2023), accepted for publication, 2023, Springer

V. Distefano, **M. Mannone**, I. Poli. *Clustering Trajectories to study Diabetic Kidney Disease*. In: Marco Villani, Stefano Cagnoni, Roberto Serra (editors), XVII International Workshop on Artificial Life and Evolutionary Name: Computation (WIVACE 2023), accepted for publication, 2023, Springer

A. Thomas, **M. Mannone**, V. Seidita, A. Chella. *Swarm Robotics and Quantum Computing in Simulated Environments*, AIRO 2023, accepted for publication

**M. Mannone**, O. C. Hamido, *Quantum Memory of Musical Compositions*, ISQCMC Berlin: 2nd International Symposium on Quantum Computing and Musical Creativity, 2023, accepted

**M. Mannone**, L. Turchet, *Theoretical Quantum Modeling of Improvisation in Networked Music Performances to Regulate the Behaviour of Artificial Musician*. 4th International Symposium on the Internet of Sounds, IS2 2023, pp. 1-7, doi: 10.1109/IEEECONF59510.2023.10335489

**M. Mannone**, V. Seidita, A. Chella, A. Giacometti, P. Fazio. *Energy and SNR-Aware Robotic Swarm Coordination for Aquatic Cleaning Operations*. IEEE Vehicular Technology Conference, VTC 2023, doi: 10.1109/VTC2023-Spring57618.2023.10200327

**M. Mannone**, V. Seidita, and A. Chella. *Quantum Robotic Swarms: What, Why, and How*. AIRO workshop, Udine (2022), <https://ceur-ws.org/Vol-3417/short8.pdf>; AIRO@AI\*IA 2022: 55-63

**M. Mannone**, V. Seidita, and A. Chella. *Does Creativity Help Us Survive? A Possible Approach with Quantum-Driven Robots*. CEUR, CREAM workshop on artificial intelligence and creativity, Udine (2022), vol. 3278, ISSN 1613-0073, <https://ceur-ws.org/Vol-3278/>; CREAM@AI\*IA 2022: 76-83

**M. Mannone**, V. Seidita, and A. Chella. *Quantum RoboSound: Auditory Feedback of a Quantum-Driven Robotic Swarm*. 2022 31st IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Naples 2022, pp. 287-292, doi: 10.1109/RO-MAN53752.2022.9900578, <https://ieeexplore.ieee.org/document/9900578>, preprint [https://www.researchgate.net/publication/363370815\\_Quantum\\_RoboSound\\_Auditory\\_Feedback\\_of\\_a\\_Quantum-Driven\\_Robotic\\_Swarm](https://www.researchgate.net/publication/363370815_Quantum_RoboSound_Auditory_Feedback_of_a_Quantum-Driven_Robotic_Swarm)

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