# ANNEX 2 – MINUTES OF THE THIRD MEETING
## ASSESSMENTS OF THE SEMINARS

## Candidate: **Francesco Greco**

### INDIVIDUAL ASSESSMENT by Prof. Aude G. Billard

Dr Francesco Greco's seminar gave a precise and concise overview of his work throughout his PhD, postdoctoral studies and current professorship. Dr. Greco was able to convey to a vast audience the challenges he faced and the solutions he developed. Overall, this was a high-quality presentation. The work conducted by Dr. Greco is at core interdisciplinary, mixing material science, chemistry and neuroscience, and it benefits from multiple collaborations with other research groups in Italy and Japan. The work is highly relevant to robotics but the application to robotics are not yet fully developed. During the Q&A session, Dr. Greco displayed maturity and depth in his understanding of the challenges faced by a faculty member when it comes to advising students. He was able to situate the importance of his research with respect to similar research done world-wide. He convincingly delineate his unique contribution. Overall, Dr. Greco appears to have very strong potential to become a brilliant faculty member. In his current assistant professorship at TU Graz, he has been able to teach on a regular basis, which was revealed in excellent presentation skills. My overall assessment is EXCELLENT.

### INDIVIDUAL ASSESSMENT by Prof. Lino Cinquini

The presentation of Dr. Francesco Greco was well structured, presented in a clear way and effective communication style. The content was specific and consistent with the requirements of the Call. His view on possible future contribution and integration of his research into the Scuola Superiore Sant'Anna was convincing, and he was able to answer extensively to the many questions asked by the Committee. As a member of the Recruitment Committee of the Scuola Superiore Sant'Anna appointed as component of this Review committee, I was able by this presentation to have clear insights about the qualifications of Dr. Greco required for access to the roles of the School. In this respect, my overall assessment of Dr. Greco's seminar is VERY GOOD.

### INDIVIDUAL ASSESSMENT by Prof. Luca Citi

Dr Greco's talk centred around four topics: soft actuators, tattoo electronics, laser induced graphene structures and 5D nanoprinting. The content was specific and consistent with the requirements of the Call. His presentation was very well structured and presented in a clear and effective way. His delivery struck me as particularly effective in presenting a coherent and accessible story while providing the right amount of technical details given the time allowed and the diverse technical background within the Committee. His answers to the questions by the Committee were very convincing and gave a clear account of Dr Grecos' technical abilities and leadership skills. I found his views on possible future contribution and integration of his research into the Scuola Superiore Sant'Anna very convincing. After Dr Greco's presentation, I am convinced that he would be a strong addition to the Scuola Superiore Sant'Anna, owing to his academic experience in a number of international institutions, his many collaborations and his track record of attracting research funding in areas with significant alignment but also partially complementary to the Scuola's research portfolio. For all the reasons stated above, my overall assessment of Dr Greco's seminar is EXCELLENT.

### INDIVIDUAL ASSESSMENT by Prof. Paolo Dario

Dr Francesco Greco's seminar focused mainly on novel polymer materials and microfabrication technologies, including frontier research in 5D nanoprinting. He also illustrated different applications of

these technologies in various fields, including medical devices and robots. The scientific soundness of the presentation was very good. The presentation was very well organized, clear and delivered with very good skills. The approach followed in the seminar, from material fabrication to innovative applications, was specific and quite consistent with the Call. The vision on the future contribution of the candidate's research to the growth of the Scuola Superiore Sant'Anna was convincing. Dr Greco answered precisely to the numerous questions posed by the Commission.Overall, my assessment of Dr Greco's seminar is VERY GOOD.

### INDIVIDUAL ASSESSMENT by Prof. Gabriele Dubini

Dr Francesco Greco' s seminar was centred on four topics: soft actuators, tattoo electronics, laser induced graphene structures and 5D nanoprinting. He presented the key elements of his contribution to the development of fabrication technologies for smart materials as well as a number of applications regarding both medical devices and robots. The presented topics fall reasonably well in the Call subjects. The seminar was very well structured and the presentation was scientifically sound and nicely delivered, with a good informative efficacy. The vision on possible future contribution and integration of the candidate's research into the Scuola Superiore Sant'Anna was convincing. Dr Greco answered extensively to the many questions asked by the Review Committee. Overall, my assessment of Dr Greco's seminar is VERY GOOD.

### INDIVIDUAL ASSESSMENT by Prof. Paolo Netti

Dr Francesco Greco's seminar was very clear and focused on his intense work on smart materials with particular attention to their use as sensing-actuators, electroconductive thin interfaces and multivariate biocircuits for biomedical applications. He showed a deep confidence, leadership, scientific autonomy and clear vision of his research. The clarity of the presentation reflected also an excellent communication and therefore teaching ability. He handled very well the questions posed by the committee and exhibited a distinct scientific maturity along with a natural inclination in training and mentoring young students. The topics of his research presented at the seminar well fall in subjects areas of the call and Dr. Greco presented a clear vision on possible integration and synergism with current on-going activities at the Scuola Superiore Sant'Anna and his proposal was highly convincing. Overall, my assessment of Dr Greco's seminar is EXCELLENT.

## Candidate: **Edoardo Sinibaldi**

### INDIVIDUAL ASSESSMENT by Prof. Aude G. Billard

Dr Edoardo Sinibaldi gave a long and detailed presentation of the various works he contributed to over the years. All of these contributions are interdisplinary and several have applications to robotics. Many of these works required important advances in mechanics, control and material science. Dr. Sinibaldi displayed enthusiasm during both the presentation and answers to the questions. Dr. Sinibaldi's research agenda is broad and touch upon many of the current challenges in AI, Robotics, Material Science and beyond. There is a need for Dr. Sinibaldi to develop a more precise research agenda and delineate better his vision for his research, as well as improve presentation skills. My overall assessment is AVERAGE.

### INDIVIDUAL ASSESSMENT by Prof. Lino Cinquini

The presentation of Dr. Edoardo Sinibaldi was very rich, presented in a detailed way and a vivid communication style. The content was very specific and highly consistent with the requirements of the Call. The discussion on his view on possible future contribution and integration of his research into the Scuola Superiore Sant'Anna highlighted a high potential of innovation, and he answer satisfactorily to the many questions asked by the Committee. As a member of the Recruitment Committee of the

Scuola Superiore Sant'Anna appointed as component of this Review committee, I was able by this presentation to have clear insights about the qualifications of Dr. Sinibaldi required for access to the roles of the School. In this respect, my overall assessment of Dr. Sinibaldi seminar is EXCELLENT.

### INDIVIDUAL ASSESSMENT by Prof. Luca Citi

Dr Sinibaldi's talk focused on the integration of biorobotics engineering and bioinspired structures at the system level. His presentation was very rich in content and covered a significant number of topics. However, I found his presentation style particularly hard to follow with an unsustainable information flow. Several slides had an excessive amount of text, over a dozen non-trivial equations and were presented without giving the audience enough time to absorb the information provided. In my opinion the answers provided to the questions by the Committee were satisfactory but also confirmed the limited experience in attracting and leading competitive research grants. Overall, Dr Sinibaldi struck me as an extremely brilliant individual, a solid technical partner but possibly not yet a strong research leader. I could see a convincing future integration of the candidate's research into the Scuola Superiore Sant'Anna. However, from the presentation, from the fact that 14 of the 15 selected publications are coauthored with a current or former senior academic from Scuola Superiore Sant'Anna and that (according to the application) he has been physically located within the Scuola's research centre in Pontedera since 2006 (either with SSSA or IIT affiliation), I am less convinced that Dr Sinibaldi will represent an opportunity for the Scuola to breed new ideas, grow into new areas and expand its research portfolio. For all the reasons above, my overall assessment of Dr Sinibaldi seminar is GOOD.

### INDIVIDUAL ASSESSMENT by Prof. Paolo Dario

In his seminar, Dr Edoardo Sinibaldi discussed the importance of biorobotics science and engineering, and introduced the concept and usability of physical intelligence. He described advanced bioinspired engineering principles and theoretical models, with reference to several specific applications such as magnetic retrieval, compliant graspers for minimally invasive surgery and endoscopic multifunctional tools. The scientific soundness of the presentation was very good. The presentation was well organized and clearly delivered. The specificity to the Call was excellent. The vision on the future contribution of the candidate's research to the growth of the Scuola Superiore Sant'Anna was creative and unconventional, but very convincing. Dr Sinibaldi answered precisely to the numerous questions posed by the Commission. Overall, my assessment of Dr Sinibaldi's seminar is EXCELLENT.

### INDIVIDUAL ASSESSMENT by Prof. Gabriele Dubini

Dr Edoardo Sinibaldi's seminar was centred on the integration of biorobotics engineering and bioinspired structures at the system level. He presented the key elements of his contribution to an extensive range of theoretical and numerical models, including models for robotic actuators, devices for minimally invasive surgery and for magnetic delivering. The presented topics match the Call subjects very well. The seminar was fairly well structured and the presentation was scientifically sound and quite passionately delivered. The vision on possible future contribution and integration of the candidate's research into the Scuola Superiore Sant'Anna was highly innovative and convincing. Dr Sinibaldi answered extensively to the many questions asked by the Review Committee. Overall, my assessment of Dr Sinibaldi's seminar is EXCELLENT.

### INDIVIDUAL ASSESSMENT by Prof. Paolo Netti

Dr Edoardo Sinibaldi's seminar was organized on a postulate existence of a general design principle for bioinspired structures at the system level. To attest this he presented some theoretical and numerical models that he elaborated to help designing  smart devices casted into a wide and broad range of applications spanning form soft robotics, minimally invasive surgery and drug delivery. Dr. Sinibaldi showed confidence and autonomy in the modelling part and his contribution to collaborative

work was very clear. The presentation was fairly clear with some ambiguous passages that reduced a little its scientific solidity, but it was delivered with high passion and enthusiasm. The candidate handled fairly well the questions posed by the committee and exhibited a very clear vision and knowledge of the overall activities carried at the Scuola Superiore Sant'Anna and his plan to integrate his contribution within the different laboratories appeared sound and smooth. Overall, my assessment of Dr Sinibaldi's seminar is VERY GOOD.

**ANNEX 3 – MINUTES OF THE THIRD MEETING**

**COLLEGIAL ASSESSMENTS**

The Committee considers both candidates highly qualified and very mature researchers.

Candidate: **Francesco Greco**

In his seminar Dr Francesco Greco demonstrated excellent scientific soundness and excellent presentation skills. He gave a well-structured, concise and very effective overview of his work throughout his researcher career. His research topics are well consistent with the requirements of the Call. His vision on the future contribution to the Scuola Superiore Sant'Anna was very convincing and clear.

Candidate: **Edoardo Sinibaldi**

In his seminar Dr Edoardo Sinibaldi demonstrated excellent scientific soundness and good presentation skills. He gave an extensive, vivid and detailed overview of his work throughout his researcher career. His research topics are well consistent with the requirements of the Call. His vision on the future contribution to the Scuola Superiore Sant'Anna was very convincing and innovative.