



COST Action Grant Agreement

AGA-CA15225-1

COST Action CA15225

Fractional-order systems; analysis, synthesis and their importance for future design

The COST Association, located at Avenue Louise 149, 1050 Brussels, Belgium, an International not-for-profit organisation (AISBL) under Belgian law, registration number 0829.090.573, represented by Dr Ronald DE BRUIN Director of the COST Association, hereinafter referred to as the **"COST Association"**

And

Brno University of Technology, Faculty of Electrical Engineering and Communication, Technicka 12, 61600 Brno, Czech Republic, represented by Prof Petr STEPANEK, Legal Representative, hereinafter referred to as the **"Grant Holder"**

Whereas:

- (1) COST (European Cooperation in Science and Technology) is a pan-European intergovernmental framework, whose mission is to enable breakthrough scientific and technological developments leading to new concepts and products and thereby to contribute to strengthening Europe's research and innovation capacities. It allows researchers, engineers and scholars to jointly develop their own ideas and new initiatives across all fields of science and technology through trans-European coordination of nationally funded research activities.
- (2) The performance of the COST Framework will be measured in relation to each of the objectives by a set of indicators aiming to monitor the progress. The stated specific objectives of the COST Framework are:
 - Joining research efforts and developing common S&T programmes through coordination of nationally funded research activities led by pan-European, high quality, collaborative S&T networks.
 - Building capacity by providing networking and leadership opportunities for emerging talents and thereby strengthening and building up excellent S&T communities.
 - Addressing Societal Questions by promoting trans-disciplinary, new approaches and topics and identifying early warning signals of unforeseen societal problems aiming at contributing to Societal Challenges.
 - Strengthening COST Inclusiveness Policy by fostering better access and integration of less research intensive countries' researchers to the knowledge hubs of the European Research Area aiming at contributing to the Widening Pillar of Horizon 2020.
- (3) The COST Action and the Action Grant Agreement are governed by COST strategies and policies, and following the set of "COST Implementation Rules" and procedures available on the COST Association website.
- (4) The COST Association has received funding from the European Union Horizon 2020 research and innovation programme within the frame of the COST H2020 Framework Partnership Agreement (FPA) (No 633054) signed between the COST Association and the European Commission, and which entered into force on 24/07/2014 for seven years and through subsequent COST H2020 Specific Grant Agreements, hereinafter referred to as "SGA" or "SGAs".



COST is supported by
the EU Framework Programme
Horizon 2020

COST Association, International not-for-profit
organisation/Association internationale sans but lucratif
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- (5) The COST mission and objectives for the seven years of the FPA are reflected in the strategic Action Plan of the FPA and its funds will be released progressively through successive SGAs.
- (6) The COST Association is funded by European Union funds. It has to be managed following the principles of efficiency and efficacy as well as assuring sound, lean and cost-effective management.
- (7) The COST Action concerned by this Action Grant Agreement was approved for funding by the Committee of Senior Officials (CSO), the COST Association General Assembly, on 26/02/2016 following a proposal submitted to the COST Association in the frame of the COST Open Call.
- (8) The Grant Holder was selected by the COST Action Management Committee during the first Management Committee meeting on 03/10/2016
- (9) A COST Action Chair and Vice-Chair were elected following the set of COST Implementation Rules; their names are identified on the COST Association website.

Therefore:

The Parties have agreed to the following terms and conditions including those in the following annexes, which form an integral part of this COST Action Grant Agreement, hereinafter referred to as the "Agreement":

- Annex A: Work & Budget Plan
- Annex B: COST Vademecum

Article 1 - Subject of the Agreement

1.1 Through this Agreement, the COST Association awards a Grant to the Grant Holder to allow the COST Action to achieve its objectives, as described in the Action's Memorandum of Understanding (MoU Ref:) and Annex A, under the coordination of the COST Action Chair and Vice-Chair, following the rules defined in the set of COST Implementation Rules, and the decisions of the Management Committee.

1.2 The Agreement shall be implemented by the Grant Holder with respect to the provisions of this Agreement and its Annexes A and B. The Grant Holder is solely responsible for providing the necessary financial and administrative support to the COST Action's activities detailed in Annex A. This includes but is not limited to preparing all planned activities and invitations, drafting minutes and reports, executing all relevant payments to the participants according to the applicable COST reimbursement rules as stated in Annex B. A contribution for Financial, Scientific and Administrative Coordination (FSAC) costs incurred by the Grant Holder in the implementation of this Agreement, if previously agreed, is defined in Annex A.

Article 2 - Implementation of this Agreement

The Grant Holder must use the online tool provided by the COST Association ("e-COST") to implement the Financial, Scientific and Administrative Coordination (FSAC) of the Action.

Article 3 - Grant Period and Duration of the Agreement

3.1 The Grant Period will start on 01/11/2016 (the Starting Date) and end on 30/04/2017 (the End Date).

3.2 This Agreement shall enter into force as of the Starting Date, notwithstanding the date of its signature and shall thereafter continue until the End Date or its termination in accordance with Article 13.

Article 4 - COST Action Grant Amount

4.1 The COST Association will provide a Grant of up to a maximum of EUR 55,499.36 to carry out the COST Action. The detailed budget for the COST Action is set out in Annex A.

4.2 The Action Management Committee (MC) may, in agreement with the COST Association, decide to rearrange the allocation of eligible expenditures of the COST Action, when necessary and always in alignment with the objectives defined in the MoU and this Agreement, with the exception of the FSAC which shall not exceed the amount stated in Annex A and shall not exceed 15% of the actual eligible science expenditure incurred by the End Date.

4.3 The Grant awarded under this Agreement shall be fully dedicated to the COST Action and shall not be used for the Grant Holder's and/or its representatives' own activities, or any activities not approved by the Action MC.

4.4 The Grant Holder shall make all liable payments to persons, institutions and other claimants eligible for reimbursement within thirty (30) days of receiving a complete claim.

Article 5 - Payment Modalities and Eligibility of Costs

5.1 The bank account of the Grant Holder to which all payments will be made is:

Account Holder: Vysoké učení technické v Brně
Bank's name: Československá obchodní banka, a.s.
IBAN: CZ5303001792820117033113
SWIFT: CEKOCZPP
VAT number: CZ00216305

The Grant Holder agrees to inform the COST Association without delay of any changes to the information listed in this article 5.1, using the procedure available in e-COST.

5.2 Payments will be made in Euros (EUR).

5.3 After signature of this Agreement a notification of payment will be sent to the Grant Holder. The COST Association will pay a first instalment of up to 100% of the amount stated in Article 4.1 (subject to the deduction of any unspent funds under a previous Grant Period), within thirty (30) calendar days of the notification and under the terms and conditions set out in this Agreement and in Annex B.

In exceptional and well justified cases, the Grant Holder might be entitled to request an additional instalment, within the limit of the Grant amount specified in Article 4.1, and if the conditions set out in article 6 and in Annex B are fulfilled.

5.4 The payment of the instalments is subject to the availability of funds under the applicable SGA.

5.5 Eligible and non-eligible costs of the COST Action are those identified (non-exhaustively) in Annex B. Any costs linked to any activity carried out outside the Grant period mentioned in Article 3.1 are not eligible for reimbursement.

As COST Action Grants are financed from EU public funds, payments made under this Agreement cannot be subject to taxes, in particular value added tax (VAT). In case the local tax authorities in the Grant Holder's country have a different analysis, the COST Association will not bear the cost for any tax or VAT adjustment applied to the Grant Holder related to the payments made under this Agreement.

5.6 The Grant Holder is irrevocably and unconditionally responsible for any amount due to the COST Association. If the Grant Holder does not fulfil its contractual obligations, the COST Association reserves the right to postpone or cancel all payments and to recover the amounts already paid to the Grant Holder.

5.7 A delay in the reporting or in the reimbursement of unused funds of less than thirty (30) days may result in cutting up to 50% of the FSAC mentioned in Article 4.2; a delay of more than thirty (30) days may result in a complete cancellation of the FSAC. This becomes effective within fifteen (15) days of receiving the written notification from the COST Association and if no remedial measures are taken or agreed with the COST Association.

5.8 Any unspent funds at the End Date, in respect of the Grant specified in Article 4.1, will be either recovered by the COST Association or, when applicable, deducted from the first instalment of the next Grant Period, as decided by the COST Association.

Article 6 - Deliverables and Reporting Requirements

6.1 Financial reporting

The Grant Holder must provide the COST Association with the following reports, using e-COST and following the requirements described in Annex B:

- An Intermediate Financial Report (IFR) for activities carried out from the Starting Date as identified in Article 3. Submission and approval of the IFR is necessary for the request of the disbursement of the instalment(s) and shall occur before the eighth month from the Starting Date.
- A Final Financial Report (FFR) for the Grant Period mentioned in Article 3.1 must be submitted at the latest sixty (60) days after the End Date.
- Each report must be signed by the person who has the official financial authority to commit the Grant Holder. In the case of the FFR, the report must also be signed by the Chair (or Vice-Chair of the COST Action when the Chair is affiliated with the Grant Holder).

6.2 Management reporting

Upon request by the COST Association, the Grant Holder shall provide the Action Chair and the COST Association (see contact person in Article 15), within six (6) weeks of the request, with a detailed Management report, based on the template provided by the COST Association.

Article 7 - Controls and Audits

7.1 The Grant Holder must ensure that the COST Association can perform a continuous monitoring of the nature, justifications and levels of expenditure of the COST Action. The Grant Holder must maintain e-COST up-to-date to enable the COST Association and its external auditors when appropriate, to perform a continuous verification of the use of the Grant awarded through this Agreement.

7.2 The Grant Holder is aware that the European Commission (EC), the European Court of Auditors (ECA) and the European Anti-Fraud Office (OLAF) can exercise their rights under the FPA and SGAs to carry out checks and audits as appropriate and for a period of up to two (2) years after the payment by the European Commission to the COST Association of the balance due under the applicable SGA.

7.3 In line with the FPA and SGAs, the Grant Holder shall keep all relevant invoices, and other supporting documents related to the reimbursement of Local Organiser Support, Short Term Scientific Missions, Training Schools, Dissemination, Other Expenses Related to Scientific Activities (OERSA) as well as printouts of the On-line Travel Reimbursement Request and related supporting document submitted by meeting participants using the COST Strong Authentication and minutes of Action MC decisions, for further auditing for up to two (2) years after the payment by the European Commission to the COST Association of the balance due under the applicable SGA.

Article 8 - Confidentiality

The Parties agree not to disclose to any third party any confidential information (information of a confidential nature relating for instance but not only to the other Party's business or scientific strategies, opportunities, finances or processes, or research), relating to this Agreement, without prior agreement from the other Party, except if the disclosure of the confidential information is necessary to enable that party to perform its responsibilities and exercise its rights under this Agreement.

This obligation of non-disclosure will not extend to any information which the Party under the relevant obligation can show by written evidence that:

- Is required to be disclosed by law, or regulatory authorities, or any court of competent jurisdiction,
- Is or becomes generally available to the public otherwise than by reason of a breach by a Party.

This obligation of non-disclosure will be valid for the duration of this Agreement and for four (4) years following its expiry or termination.

Article 9 - Dispute Resolution, Governing Law and Jurisdiction

This Agreement and all matters arising out of it will in all respects be governed by Belgian Law. If a dispute concerning the interpretation, application or validity of this Agreement cannot be settled amicably, the Brussels courts will have jurisdiction to hear any dispute under this Agreement.

Article 10 - Liability

The Grant Holder shall bear sole liability towards third parties for damages arising as a result of the Grant Holder's breach of any of its obligations under this Agreement.

Article 11 - Force Majeure

If the Grant Holder claims a delay in the performance of any of its obligations under this Agreement, due to a situation of Force Majeure (i.e. event or circumstance beyond its reasonable control and occurring without its fault or negligence), the COST Association must be immediately informed, stating the nature, likely duration and foreseeable effects. A decision on the need to suspend the Agreement shall be taken without delay. If the situation of Force Majeure is not overcome within six (6) weeks after notification, and after discussions in good faith between the Parties, the COST Association reserves the right to decide whether the Agreement shall continue to be suspended for a newly defined period, or terminated.

Article 12 - Data Protection

All personal data related to the COST Action and entered in the COST databases (including e-COST), or used for carrying out the Agreement and for which the Grant Holder might have access strictly necessary for implementing, managing and monitoring the Agreement, shall be processed in accordance with the Directive 95/46/EC and amending acts and national law on data protection.

Article 13 - Termination

Each Party is entitled to terminate this Agreement if the other Party commits any breach of or default in any terms and conditions of this Agreement or its annexes, and the Party committing such breach or default fails to remedy such default or breach within sixty (60) days following receipt of written notice of such breach or default from the Party seeking to terminate this Agreement.

If the Grant Holder is unable or unwilling to continue its participation in the COST Action, the Parties shall be entitled to terminate this Agreement within sixty (60) days following receipt of written notice of such decision to withdraw from the Grant Holder. Such notice shall be sent to the COST Association contact indicated in article 15 and to the Action Chair, and Vice Chair.

In case of termination of the Agreement (e.g. in case of withdrawal of the Grant Holder), unspent funds at the date of termination, in respect of any Grant specified in Article 4.1, will be recovered by the COST Association.

The Grant Holder shall send to the COST Association a Final Financial Report in respect of any Grant specified in Article 4.1 due to the Grant Holder as at the date of the termination, or in respect of any non-cancellable costs and/commitments which the Grant Holder has incurred or entered into, and which the COST Association has agreed to meet on or prior to the termination of this Agreement. All non-cancellable costs and /or commitments incurred or entered into following the relevant date of notice of termination will only be recoverable where they have been approved in writing by the COST Association.

The provisions of articles 7 and 12 will survive the expiry or termination of this Agreement.

Article 14 - Acknowledgment

The Grant Holder shall take appropriate measures to acknowledge COST and the European Union's financial support in COST Action activities and mandatorily on any dissemination and publication material funded through the Agreement and shall respect its obligations under Annex B regarding dissemination and publications.

In carrying out the present COST Action, the Grant Holder shall not act in a way that could potentially damage the COST Association reputation and image.

Article 15 - Contacts

15.1 Any communication or request for amendment must be made in English and in writing to the following contact persons and addresses:

For the COST Association:

Dr Ralph STUEBNER
Avenue Louise 149
1050 Brussels, Belgium
Tel : +3225333826
Fax : +3225333890
E-mail: ralph.stuebner@cost.eu

For the Grant Holder:

Dr Jaroslav KOTON
Technicka 12
FEKT
UTKO
61600 Brno
Czech Republic
Tel : +420541146971
Fax :
E-mail: koton@feec.vutbr.cz

15.2 The Parties agree to inform the other Party without delay and in writing of any changes in the names and addresses identified above, using the procedure available in e-COST.

Article 16 - Exceptions and Amendments

16.1 Amendments and other changes to this Agreement, other than the changes covered under articles 5.1 and 15.2, shall be valid only if made in writing through an amendment signed by both Parties, unless otherwise agreed by the Parties. Any changes to annex B will be notified in writing by the COST Association to the Grant Holder

16.2 Any exceptions to the terms and conditions set out in this Agreement and its annexes must be formally requested by the Grant Holder, duly justified and approved in writing by the COST Association.



This Agreement is signed for and on behalf of:

Brno University of Technology
Duly represented by
Prof Petr STEPANEK
Legal Representative

COST Association
Duly represented by
Dr Ronald DE BRUIN
Director of the COST Association

Electronically Signed

Electronically Signed

On Date: 31/10/2016

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Horizon 2020

COST Association, International not-for-profit
organisation/Association internationale sans but lucratif
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WORKPLAN

Annex A - Work And Budget plan

CA15225

Fractional-order systems; analysis, synthesis and their importance for future design

Grant Period from 01/11/2016 to 30/04/2017

Summary Budget

Instrument	Quant.	Budget
Meetings	1	20772.00 EUR
Training Schools	1	23081.00 EUR
Short Term Scientific Missions (STSM)	2	3200.00 EUR
COST Action Dissemination	1	2000.00 EUR
Other Expenses Related to Scientific Activities (OERSA)	1	500.00 EUR
SCIENCE EXPENDITURE :		49553.00 EUR
Financial and Scientific Administration and Coordination (FSAC) - MAX. 15%	12%	5946.36 EUR
TOTAL EXPENDITURE :		55499.36 EUR

Indicative Information

Details for Meetings

Meeting 1

Type :	Management Committee Meeting, Working Group Meeting
Title :	Meeting on current state in fractional-order systems and future plans
Location :	Brno (Czech Republic)
Date :	23/11/2016 - 23/11/2016
Total Participants :	38
Total Reimbursed :	38
Travel Costs :	20102.00 EUR
Local Organiser Support :	670.00 EUR

Details for Training Schools

Training School 1

Title :	COST Training School in Fractional-order systems
Location :	Brno (Czech Republic)
Date :	24/11/2016 - 26/11/2016
Number Of Trainers :	6
Number Of Trainees :	40
Travel Costs Trainers :	1080.00 EUR
Travel Costs Trainees :	20000.00 EUR
Local Organiser Support :	2001.00 EUR

Details for Short Term Scientific Missions (STSM)

STSM Summary

Number Of STSMs :	2
Amount Per STSM :	1600.00 EUR
Total Budget For STSMs :	3200.00 EUR

Details for COST Action Dissemination

Item 1

Title :	Action webpage
Expected Release Date :	31/01/2017
Publisher Or Supplier :	so far unknown
Type :	Action Website
Amount :	2000.00 EUR

Details for Other Expenses Related to Scientific Activities (OERSA)

Expense 1

Title :	Bank transfer fees
Amount :	500.00 EUR