

1 INFORMATIONS GÉNÉRALES POUR LE CONTRAT EN COURS

1.1 Identification de l'unité



Nom de l'unité : **VERIMAG**

Label et numéro : **UMR 5104**

Domaine scientifique principal :

ST : Sciences et Technologies

Panel scientifiques par ordre décroissant de pertinence :

ST6 : Sciences et technologies de l'information et de la communication - STIC

Équipe de direction :

David Monniaux, directeur de recherche au CNRS, *directeur*

Pascal Raymond, chargé de recherche au CNRS, *directeur-adjoint*

Liste des tutelles de l'unité de recherche :

- Université Grenoble Alpes (UGA), *tutelle hébergeante*
- Centre national de la recherche scientifique (CNRS)
- Grenoble-INP, *tutelle associée*

École doctorale de rattachement :

École doctorale mathématiques, sciences et technologies de l'information, informatique (ED MSTII), **ED 217**

1.2 Présentation de l'unité

Historique, localisation de l'unité

Organisation de l'unité

Services communs

Effectif de l'unité au 31/12/2024

Thématiques scientifiques

1.3 Environnement de recherche

1.3.1 Implication dans un dispositif créé par le PIA

1.3.2 Participation à des structures de valorisation, de transfert et de recherche partenariale

1.4 Prise en compte des recommandations du précédent rapport

2 INTRODUCTION DU PORTFOLIO

3 AUTOÉVALUATION DE L'UNITÉ

3.1 Objectifs scientifiques, organisation et ressources de l'unité

3.1.1 Objectifs scientifiques et organisation

3.1.2 Ressources de l'unité

Dotations

Ressources contractuelles

Accueil des nouveaux personnels

Doctorants

Accompagnement des personnels d'appui à la recherche

Enseignants-chercheurs, enseignantes-chercheuses

Difficultés liées au contexte Le zbeul.

3.1.3 Locaux, équipements, compétences techniques

3.1.4 Pratiques responsables en matière de ressources humaines

Politique de ressources humaines

Lutte contre les discriminations et VSS

Prévention des RPS

PPST et systèmes informatiques

Impact de l'activité de recherche sur l'environnement

3.2 Résultats, rayonnement, attractivité scientifique

3.2.1 Reconnaissance scientifique

3.2.2 Production scientifique

3.2.3 Animation et pilotage

3.2.4 Intégrité scientifique et science ouverte

3.3 Inscription des activités de recherche dans la société

3.3.1 Interactions avec le monde culturel, économique et social

3.3.2 Produits et services à destination du monde culturel, économique et social

3.3.3 Partage des connaissances avec le grand public et interventions dans des débats de société

3.4 Synthèse

4 TRAJECTOIRE DE L'UNITÉ

A BIBLIOGRAPHIE

A.1 Revues internationales à comité de lecture

- [J1] K. ALTISEN et al. "Self-stabilizing synchronous unison in directed networks". In : *Theoretical Computer Science* 1001 (2024), p. 114577. ISSN : 0304-3975. DOI : 10.1016/j.TCS.2024.114577. HAL : hal-04580574.
- [J2] B. AUBOUIN-PAIRAULT, M. FIACCHINI et T. DANG. "Comparison of multiple Kalman filter and moving horizon estimator for the anesthesia process". In : *Journal of Process Control* 136 (2024), p. 103179. ISSN : 0959-1524. DOI : 10.1016/j.jprocont.2024.103179. HAL : hal-04565805. URL : <https://www.sciencedirect.com/science/article/abs/pii/S0959152424000192?via%5C%3Dihub>.

- [J3] B. AUBOUIN-PAIRAULT, M. FIACCHINI et T. DANG. "Data-based modeling of the Pharmacodynamics for the effect of Propofol and Remifentanyl during General Anesthesia". In : *Biomedical Signal Processing and Control* 98 (2024), p. 106728. ISSN : 1746-8094. DOI : 10.1016/j.bspc.2024.106728. HAL : hal-04672903. URL : <https://www.sciencedirect.com/science/article/abs/pii/S1746809424007869?via%5C%3Dihub>.
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A.2 Conférences internationales à comité de programme

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- [C2] K. ALTISEN et al. “Pour être César, il faut que tous les chemins viennent de la Domus Augustana”. In : *AlgoTel 2024 – 26èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications*. 2024. HAL : hal-04552810.
- [C3] B. AUBOUIN-PAIRAULT, M. FIACCHINI et T. DANG. “PID and Model Predictive Control Approach for Drug Dosage in Anesthesia During Induction : a Comparative Study”. In : *PID24 - 4th IFAC Conference on Advances in Proportional-Integral-Derivative Control*. T. 58. 2024, p. 210-215. DOI : 10.1016/j.ifacol.2024.08.036. HAL : hal-04565817.
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