Basile, F., Chiacchio, P., Gerbasio, D.

On the Implementation of Industrial Automation Systems Based on PLC

Basile, F., Chiacchio, P., Del Grosso, D.

A control oriented model for manual-pick warehouses

Basile, F., Caccavale, F., Chiacchio, P., Coppola, J., Curatella, C.

Task-oriented motion planning for multi-arm robotic systems

Basile, F., Chiacchio, P., Coppola, J.

A hybrid model of complex automated warehouse systems - Part II: Analysis and experimental results

Basile, F., Chiacchio, P., Coppola, J.

A hybrid model of complex automated warehouse systems - Part I: Modeling and simulation
Basile, F., Chiacchio, P., De Tommasi, G.

On K-diagnosability of Petri nets via integer linear programming


Basile, F., Chiacchio, P., Teta, D.

A hybrid model for real time simulation of urban traffic


Basile, F., Chiacchio, P., Coppola, J.

A discrete event model for the control and analysis of complex automated warehouse systems


Basile, F., Chiacchio, P., Coppola, J.

Colored Hybrid Petri-nets for modeling material handling systems


Basile, F., Chiacchio, P., Coppola, J.

A hybrid model for the control and the analysis of complex automated warehouse systems


Basile, F., Chiacchio, P., Gerbasio, D.

Progress in PLC programming for distributed automation systems control

(2011) IEEE International Conference on Industrial Informatics (INDIN), art. no. 6034950, pp. 621-627.
Identification of Petri nets using timing information


A novel approach to PLC programming for distributed automation systems control


Diagnosability of labeled Petri nets via Integer Linear Programming


Fault diagnosis and prognosis in Petri nets by using a single generalized marking estimation


Improving real-time identification of Petri Nets using timing information


Implementation of hydraulic servo controllers with only position measure

Basile, F., Chiacchio, P., De Tommasi, G.

**Online diagnosis of discrete events systems based on Petri nets and integer linear programming**


Basile, F., Chiacchio, P., Del Grosso, D.

**An approach to control generalized warehouses**


Basile, F., Chiacchio, P., Del Grosso, D.

**A control oriented model of generalized warehouses based on colored timed petri nets**


Basile, F., Chiacchio, P., De Tommasi, G.

**An efficient approach for online diagnosis of discrete event systems**


Basile, F., Chiacchio, P., Del Grosso, D.

**A two-stage modelling architecture for distributed control of real-time industrial systems: Application of UML and Petri Net**


Basile, F., Recalde, L., Chiacchio, P., Silva, M.

**Closed-loop live marked graphs under generalized mutual exclusion constraint enforcement**

Basile, F., Giua, A., Seatzu, C.

**Some new results on supervisory control of Petri Nets with decentralized monitor places**

(2008) IFAC Proceedings Volumes (IFAC-PapersOnline), 17 (1 PART 1), .

Basile, F., Chiacchio, P., Grosso, D.D.

**UML-based modeling and model-driven development of distributed control systems**


Basile, F., Chiacchio, P., Grosso, D.D.

**Modelling automation systems by UML and petri nets**


Basile, F., Chiacchio, P., Tommasi, G.D.

**Online diagnosis of discrete event systems based on petri nets**


Basile, F., Chiacchio, P., Tommasi, G.D.

**Sufficient conditions for diagnosability of petri nets**

Basile, F., Chiacchio, P., Tommasi, G.D., Grosso, D.D.

Performing fault diagnosis for PNs using g-markings: A benchmark case


Basile, F., Chiacchio, P., De Tommasi, G.

Improving on-line fault diagnosis for discrete event systems using time


Basile, F., Chiacchio, P., De Tommasi, G.

An efficient approach for on-line diagnosis of discrete event systems


Basile, F., Giua, A., Seatzu, C.

Decentralized supervisory control of petri nets with monitor places


Basile, F., Giua, A., Seatzu, C.

Supervisory control of petri nets with decentralized monitor places


Basile, F., Chiacchio, P.

On the implementation of supervised control of discrete event systems

Basile, F., Carbone, C., Chiacchio, P.

**Feedback control logic for backward conflict free choice nets**


Basile, F., Carbone, C., Chiacchio, P.

**Simulation and analysis of discrete-event control systems based on Petri nets using PNetLab**


Basile, F., Chiacchio, P., Giua, A.

**An optimization approach to Petri net monitor design**


Basile, F., Chiacchio, P., Teta, D.

**IEC 61131-3 based implementation of PN supervisors**


Basile, F., Chiacchio, P., Giua, A.

**Suboptimal supervisory control of Petri nets in presence of uncontrollable transitions via monitor places**


Basile, F., Giua, A., Seatzu, C.

**Decentralized supervisory control of petri nets with monitor places**

Basile, F., Carbone, C., Chiacchio, P.

*Feedback control logic for backward conflict free choice nets*

(2005) IFAC Proceedings Volumes (IFAC-PapersOnline), 16, pp. 31-36.

Amato, F., Basile, F., Carbone, C., Chiacchio, P.

*An approach to control automated warehouse systems*


Basile, F., Carbone, C., Chiacchio, P., Boel, R.K., Avram, C.C.

*A hybrid model for urban traffic control*


Basile, F., Chiacchio, P., Vittorini, V., Mazzocca, N.

*Modeling and logic controller specification of flexible manufacturing systems using behavioral traces and Petri net building blocks*


Giua, A., Seatzu, C., Basile, F.

*Observer-based state-feedback control of timed Petri nets with deadlock recovery*


Basile, F., Carbone, C., Chiacchio, P.

*Petri net controllers to enforce disjunction of GMECs*

Basile, F., Carbone, C., Chiacchio, P.

An approach to enforce disjunction of GMECs on controlled petri nets

Basile, F., Chiacchio, P.

A contribution to minimum-time task-space path-following problem for redundant manipulators

Giua, A., Seatzu, C., Basile, F.

Petri net control using event observers and timing information

Amato, F., Basile, F., Chiacchio, P.

Crane and shuttle optimization in warehousing systems

Basile, F., Chiacchio, P., Giua, A., Seatzu, C.

Deadlock recovery of Petri net models controlled using observers

Amato, F., Basile, F.

Optimal control of warehousing systems with simultaneous crane and shuttle optimization
Basile, F., Chiacchio, P., Mazzocca, N.

A suboptimal multimedia remote supervisory control of a robotic cell


Basile, F., Carbone, C., Chiacchio, P.

Modeling of AS/RS via coloured petri nets


Basile, F., Chiacchio, P., Giua, A.

Petri net monitor design with control and observation costs


Basile, F., Chiacchio, P., Vittorini, V., Mazzocca, N.

Specification and modeling of flexible manufacturing systems using behaviours and petri nets building blocks


Basile, Francesco, Chiacchio, Pasquale, Giua, Alessandro

On the choice of suboptimal monitors for supervisory control of Petri nets