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Department of

Mechanical

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control algorithm is

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flocking, where it
results in the first
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assumption...

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network, that is,

the mobile robots

and the

communication

service connecting

them. We then

present the notion

of control and

communication

law, and how a law

is executed by a

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robotic network.

These notions
subsume the
notions of

synchronous

network and

distributed

algorithm

described in

Section 1.4.

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physical location of
as many robots as
possible, i.e., to
steer the robots to
a common location.

This objective is to
be achieved with
the limited

information flow
described in the
model of the

network. Typically,
it will be impossible
to solve the

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Control Of

rendezvous

problem for all
robots if the robots
are placed in such

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A familiarity with basic concepts from analysis, linear

algebra, dynamical systems, and control theory is assumed.

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This self-contained introduction to the distributed control of robotic networks offers a distinctive blend of computer science and control theory. The book presents a broad set of tools for understanding coordination

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algorithms,
determining their
correctness, and
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Abstract. The field

of robotics is
evolving from

single monolithic

robots to teams of
small but

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interconnected
robots that achieve
global objectives
using local
coordination.

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